

## FIGURE 1

HUMAN  $\alpha$ -GALACTOSIDASE COORDINATESCHAIN A

	Atom	Type	Resid	#	X	Y	Z	OCC	B	
ATOM	1	N	LEU A	32	-14.824	53.775	124.809	1.00	67.49	N
ATOM	2	CA	LEU A	32	-16.090	53.328	125.458	1.00	67.86	C
ATOM	3	C	LEU A	32	-15.906	51.947	126.081	1.00	66.10	C
ATOM	4	O	LEU A	32	-15.672	50.968	125.380	1.00	67.72	O
ATOM	5	CB	LEU A	32	-17.218	53.293	124.425	1.00	71.62	C
ATOM	6	CG	LEU A	32	-18.563	52.754	124.909	1.00	76.53	C
ATOM	7	CD1	LEU A	32	-19.013	53.542	126.120	1.00	82.27	C
ATOM	8	CD2	LEU A	32	-19.587	52.849	123.798	1.00	75.72	C
ATOM	9	N	ASP A	33	-16.010	51.872	127.402	1.00	62.63	N
ATOM	10	CA	ASP A	33	-15.833	50.609	128.110	1.00	66.42	C
ATOM	11	C	ASP A	33	-17.078	49.732	128.061	1.00	66.28	C
ATOM	12	O	ASP A	33	-17.847	49.662	129.010	1.00	70.72	O
ATOM	13	CB	ASP A	33	-15.429	50.886	129.565	1.00	76.45	C
ATOM	14	CG	ASP A	33	-15.213	49.613	130.376	1.00	89.48	C
ATOM	15	OD1	ASP A	33	-16.204	48.914	130.682	1.00	92.42	O
ATOM	16	OD2	ASP A	33	-14.045	49.310	130.710	1.00	101.27	O
ATOM	17	N	ASN A	34	-17.268	49.065	126.934	1.00	63.97	N
ATOM	18	CA	ASN A	34	-18.403	48.178	126.733	1.00	58.89	C
ATOM	19	C	ASN A	34	-17.827	46.786	126.543	1.00	58.39	C
ATOM	20	O	ASN A	34	-18.512	45.868	126.086	1.00	59.56	O
ATOM	21	CB	ASN A	34	-19.157	48.579	125.474	1.00	50.46	C
ATOM	22	CG	ASN A	34	-18.228	48.774	124.289	1.00	44.58	C
ATOM	23	OD1	ASN A	34	-17.200	48.106	124.184	1.00	48.14	O
ATOM	24	ND2	ASN A	34	-18.584	49.689	123.390	1.00	32.72	N
ATOM	25	N	GLY A	35	-16.552	46.648	126.892	1.00	55.86	N
ATOM	26	CA	GLY A	35	-15.885	45.374	126.748	1.00	53.67	C
ATOM	27	C	GLY A	35	-15.709	45.048	125.278	1.00	52.92	C
ATOM	28	O	GLY A	35	-15.539	43.886	124.908	1.00	57.86	O
ATOM	29	N	LEU A	36	-15.758	46.071	124.430	1.00	47.94	N
ATOM	30	CA	LEU A	36	-15.579	45.871	122.994	1.00	46.06	C
ATOM	31	C	LEU A	36	-14.389	46.650	122.493	1.00	46.43	C
ATOM	32	O	LEU A	36	-14.042	47.703	123.039	1.00	47.09	O
ATOM	33	CB	LEU A	36	-16.812	46.304	122.206	1.00	51.34	C
ATOM	34	CG	LEU A	36	-18.046	45.428	122.366	1.00	52.68	C
ATOM	35	CD1	LEU A	36	-19.072	45.835	121.327	1.00	57.25	C
ATOM	36	CD2	LEU A	36	-17.668	43.965	122.205	1.00	56.03	C
ATOM	37	N	ALA A	37	-13.770	46.135	121.440	1.00	46.90	N
ATOM	38	CA	ALA A	37	-12.610	46.789	120.883	1.00	49.14	C
ATOM	39	C	ALA A	37	-11.562	46.863	121.973	1.00	49.54	C
ATOM	40	O	ALA A	37	-11.079	47.946	122.303	1.00	48.93	O
ATOM	41	CB	ALA A	37	-12.971	48.179	120.416	1.00	55.24	C
ATOM	42	N	ARG A	38	-11.245	45.710	122.559	1.00	51.16	N
ATOM	43	CA	ARG A	38	-10.220	45.658	123.598	1.00	58.37	C
ATOM	44	C	ARG A	38	-8.943	45.500	122.802	1.00	54.73	C
ATOM	45	O	ARG A	38	-7.864	45.256	123.342	1.00	61.96	O
ATOM	46	CB	ARG A	38	-10.388	44.457	124.538	1.00	64.33	C
ATOM	47	CG	ARG A	38	-11.755	44.326	125.213	1.00	66.46	C
ATOM	48	CD	ARG A	38	-12.329	45.665	125.696	1.00	68.63	C
ATOM	49	NE	ARG A	38	-11.542	46.310	126.743	1.00	65.38	N
ATOM	50	CZ	ARG A	38	-11.845	47.494	127.264	1.00	70.22	C
ATOM	51	NH1	ARG A	38	-12.915	48.153	126.835	1.00	66.18	N
ATOM	52	NH2	ARG A	38	-11.078	48.025	128.205	1.00	76.54	N
ATOM	53	N	THR A	39	-9.114	45.629	121.492	1.00	42.63	N
ATOM	54	CA	THR A	39	-8.041	45.553	120.513	1.00	39.39	C
ATOM	55	C	THR A	39	-8.555	46.298	119.290	1.00	38.04	C
ATOM	56	O	THR A	39	-9.753	46.284	119.008	1.00	40.98	O
ATOM	57	CB	THR A	39	-7.741	44.105	120.101	1.00	31.04	C
ATOM	58	OG1	THR A	39	-8.932	43.513	119.570	1.00	43.60	O
ATOM	59	CG2	THR A	39	-7.270	43.292	121.283	1.00	29.17	C
ATOM	60	N	PRO A	40	-7.661	46.968	118.555	1.00	38.87	N
ATOM	61	CA	PRO A	40	-8.115	47.696	117.367	1.00	38.65	C
ATOM	62	C	PRO A	40	-9.048	46.806	116.520	1.00	36.72	C
ATOM	63	O	PRO A	40	-8.684	45.685	116.166	1.00	50.49	O
ATOM	64	CB	PRO A	40	-6.803	48.032	116.658	1.00	42.95	C
ATOM	65	CG	PRO A	40	-5.827	48.173	117.806	1.00	44.34	C
ATOM	66	CD	PRO A	40	-6.194	47.019	118.696	1.00	44.72	C
ATOM	67	N	THR A	41	-10.254	47.294	116.219	1.00	30.56	N
ATOM	68	CA	THR A	41	-11.235	46.536	115.417	1.00	22.13	C
ATOM	69	C	THR A	41	-10.684	46.192	114.045	1.00	21.75	C
ATOM	70	O	THR A	41	-10.020	47.020	113.423	1.00	17.46	O

ATOM	71	CB	THR	A	41	-12.506	47.347	115.152	1.00	18.74	C
ATOM	72	OG1	THR	A	41	-12.901	48.035	116.348	1.00	29.21	O
ATOM	73	CG2	THR	A	41	-13.626	46.428	114.666	1.00	3.31	C
ATOM	74	N	MET	A	42	-10.967	44.987	113.561	1.00	27.61	N
ATOM	75	CA	MET	A	42	-10.486	44.583	112.234	1.00	31.65	C
ATOM	76	C	MET	A	42	-11.646	44.195	111.330	1.00	32.03	C
ATOM	77	O	MET	A	42	-12.479	43.360	111.701	1.00	37.57	O
ATOM	78	CB	MET	A	42	-9.539	43.396	112.342	1.00	37.02	C
ATOM	79	CG	MET	A	42	-8.362	43.650	113.237	1.00	32.14	C
ATOM	80	SD	MET	A	42	-7.217	42.289	113.180	1.00	27.50	S
ATOM	81	CE	MET	A	42	-6.528	42.554	111.547	1.00	31.36	C
ATOM	82	N	GLY	A	43	-11.696	44.795	110.144	1.00	19.78	N
ATOM	83	CA	GLY	A	43	-12.767	44.491	109.215	1.00	24.08	C
ATOM	84	C	GLY	A	43	-12.606	45.117	107.848	1.00	26.38	C
ATOM	85	O	GLY	A	43	-11.502	45.467	107.434	1.00	35.82	O
ATOM	86	N	TRP	A	44	-13.725	45.253	107.145	1.00	20.58	N
ATOM	87	CA	TRP	A	44	-13.751	45.826	105.799	1.00	18.47	C
ATOM	88	C	TRP	A	44	-14.863	46.862	105.710	1.00	19.26	C
ATOM	89	O	TRP	A	44	-15.935	46.703	106.301	1.00	22.29	O
ATOM	90	CB	TRP	A	44	-14.015	44.732	104.763	1.00	13.98	C
ATOM	91	CG	TRP	A	44	-13.961	45.185	103.320	1.00	28.86	C
ATOM	92	CD1	TRP	A	44	-12.841	45.329	102.547	1.00	43.13	C
ATOM	93	CD2	TRP	A	44	-15.074	45.486	102.465	1.00	29.85	C
ATOM	94	NE1	TRP	A	44	-13.186	45.690	101.265	1.00	44.22	N
ATOM	95	CE2	TRP	A	44	-14.550	45.791	101.187	1.00	38.52	C
ATOM	96	CE3	TRP	A	44	-16.461	45.524	102.653	1.00	19.33	C
ATOM	97	CZ2	TRP	A	44	-15.367	46.124	100.102	1.00	39.43	C
ATOM	98	CZ3	TRP	A	44	-17.274	45.856	101.576	1.00	28.01	C
ATOM	99	CH2	TRP	A	44	-16.723	46.149	100.318	1.00	40.64	C
ATOM	100	N	LEU	A	45	-14.609	47.916	104.951	1.00	15.68	N
ATOM	101	CA	LEU	A	45	-15.583	48.970	104.806	1.00	8.20	C
ATOM	102	C	LEU	A	45	-15.575	49.358	103.344	1.00	8.64	C
ATOM	103	O	LEU	A	45	-14.552	49.728	102.779	1.00	5.90	O
ATOM	104	CB	LEU	A	45	-15.198	50.158	105.694	1.00	3.31	C
ATOM	105	CG	LEU	A	45	-16.294	51.156	106.050	1.00	5.81	C
ATOM	106	CD1	LEU	A	45	-15.648	52.340	106.684	1.00	12.88	C
ATOM	107	CD2	LEU	A	45	-17.052	51.601	104.820	1.00	21.03	C
ATOM	108	N	HIS	A	46	-16.745	49.270	102.744	1.00	3.31	N
ATOM	109	CA	HIS	A	46	-16.919	49.567	101.340	1.00	11.17	C
ATOM	110	C	HIS	A	46	-16.579	50.976	100.856	1.00	21.93	C
ATOM	111	O	HIS	A	46	-16.281	51.157	99.675	1.00	29.71	O
ATOM	112	CB	HIS	A	46	-18.364	49.253	100.942	1.00	11.81	C
ATOM	113	CG	HIS	A	46	-19.281	50.436	101.003	1.00	28.93	C
ATOM	114	ND1	HIS	A	46	-19.351	51.374	99.996	1.00	35.79	N
ATOM	115	CD2	HIS	A	46	-20.150	50.844	101.958	1.00	28.46	C
ATOM	116	CE1	HIS	A	46	-20.224	52.309	100.328	1.00	32.31	C
ATOM	117	NE2	HIS	A	46	-20.723	52.011	101.514	1.00	19.72	N
ATOM	118	N	TRP	A	47	-16.598	51.973	101.733	1.00	19.43	N
ATOM	119	CA	TRP	A	47	-16.373	53.343	101.260	1.00	18.18	C
ATOM	120	C	TRP	A	47	-15.325	53.657	100.182	1.00	19.31	C
ATOM	121	O	TRP	A	47	-15.664	53.759	99.003	1.00	17.77	O
ATOM	122	CB	TRP	A	47	-16.176	54.326	102.419	1.00	23.78	C
ATOM	123	CG	TRP	A	47	-16.419	55.731	101.936	1.00	38.36	C
ATOM	124	CD1	TRP	A	47	-15.536	56.767	101.925	1.00	46.06	C
ATOM	125	CD2	TRP	A	47	-17.605	56.208	101.287	1.00	40.43	C
ATOM	126	NE1	TRP	A	47	-16.096	57.860	101.302	1.00	47.00	N
ATOM	127	CE2	TRP	A	47	-17.367	57.540	100.901	1.00	44.04	C
ATOM	128	CE3	TRP	A	47	-18.847	55.633	100.991	1.00	40.44	C
ATOM	129	CZ2	TRP	A	47	-18.323	58.309	100.235	1.00	45.58	C
ATOM	130	CZ3	TRP	A	47	-19.797	56.397	100.329	1.00	44.04	C
ATOM	131	CH2	TRP	A	47	-19.528	57.721	99.958	1.00	42.42	C
ATOM	132	N	GLU	A	48	-14.068	53.826	100.568	1.00	13.66	N
ATOM	133	CA	GLU	A	48	-13.046	54.186	99.590	1.00	6.43	C
ATOM	134	C	GLU	A	48	-13.071	53.427	98.260	1.00	5.74	C
ATOM	135	O	GLU	A	48	-12.909	54.026	97.206	1.00	7.32	O
ATOM	136	CB	GLU	A	48	-11.640	54.077	100.210	1.00	3.31	C
ATOM	137	CG	GLU	A	48	-10.500	54.771	99.396	1.00	10.31	C
ATOM	138	CD	GLU	A	48	-10.188	54.109	98.042	1.00	23.63	C
ATOM	139	OE1	GLU	A	48	-9.778	52.930	98.018	1.00	28.74	O
ATOM	140	OE2	GLU	A	48	-10.342	54.773	96.996	1.00	34.69	O
ATOM	141	N	ARG	A	49	-13.279	52.119	98.302	1.00	9.77	N
ATOM	142	CA	ARG	A	49	-13.258	51.319	97.085	1.00	18.71	C
ATOM	143	C	ARG	A	49	-14.505	51.367	96.218	1.00	23.25	C
ATOM	144	O	ARG	A	49	-14.441	51.101	95.016	1.00	23.40	O
ATOM	145	CB	ARG	A	49	-12.947	49.865	97.440	1.00	28.83	C
ATOM	146	CG	ARG	A	49	-12.685	48.983	96.244	1.00	33.89	C
ATOM	147	CD	ARG	A	49	-11.610	49.585	95.354	1.00	50.93	C
ATOM	148	NE	ARG	A	49	-11.077	48.596	94.424	1.00	62.30	N
ATOM	149	CZ	ARG	A	49	-11.745	48.111	93.385	1.00	65.06	C

ATOM	150	NH1	ARG	A	49	-12.977	48.537	93.130	1.00	53.20	N
ATOM	151	NH2	ARG	A	49	-11.193	47.173	92.623	1.00	68.57	N
ATOM	152	N	PHE	A	50	-15.633	51.721	96.819	1.00	18.53	N
ATOM	153	CA	PHE	A	50	-16.885	51.752	96.083	1.00	19.91	C
ATOM	154	C	PHE	A	50	-17.715	53.015	96.252	1.00	25.78	C
ATOM	155	O	PHE	A	50	-18.749	53.184	95.609	1.00	30.56	O
ATOM	156	CB	PHE	A	50	-17.694	50.526	96.479	1.00	3.31	C
ATOM	157	CG	PHE	A	50	-17.037	49.234	96.080	1.00	3.31	C
ATOM	158	CD1	PHE	A	50	-17.210	48.700	94.796	1.00	7.11	C
ATOM	159	CD2	PHE	A	50	-16.200	48.575	96.966	1.00	3.31	C
ATOM	160	CE1	PHE	A	50	-16.553	47.530	94.414	1.00	3.31	C
ATOM	161	CE2	PHE	A	50	-15.534	47.397	96.588	1.00	3.31	C
ATOM	162	CZ	PHE	A	50	-15.714	46.877	95.309	1.00	3.31	C
ATOM	163	N	MET	A	51	-17.256	53.908	97.113	1.00	30.81	N
ATOM	164	CA	MET	A	51	-17.967	55.151	97.352	1.00	35.74	C
ATOM	165	C	MET	A	51	-19.474	54.972	97.329	1.00	38.71	C
ATOM	166	O	MET	A	51	-20.002	53.965	97.796	1.00	44.46	O
ATOM	167	CB	MET	A	51	-17.583	56.181	96.310	1.00	32.16	C
ATOM	168	CG	MET	A	51	-16.111	56.360	96.182	1.00	40.30	C
ATOM	169	SD	MET	A	51	-15.828	57.763	95.156	1.00	60.82	S
ATOM	170	CE	MET	A	51	-15.519	58.994	96.400	1.00	60.08	C
ATOM	171	N	CYS	A	52	-20.162	55.956	96.766	1.00	43.24	N
ATOM	172	CA	CYS	A	52	-21.611	55.932	96.714	1.00	50.44	C
ATOM	173	C	CYS	A	52	-22.094	55.641	95.314	1.00	52.54	C
ATOM	174	O	CYS	A	52	-22.673	56.497	94.651	1.00	51.59	O
ATOM	175	CB	CYS	A	52	-22.162	57.276	97.189	1.00	53.51	C
ATOM	176	SG	CYS	A	52	-23.982	57.393	97.340	1.00	59.52	S
ATOM	177	N	ASN	A	53	-21.854	54.417	94.873	1.00	56.99	N
ATOM	178	CA	ASN	A	53	-22.252	53.988	93.541	1.00	56.33	C
ATOM	179	C	ASN	A	53	-23.663	53.399	93.537	1.00	54.88	C
ATOM	180	O	ASN	A	53	-23.956	52.474	94.291	1.00	51.18	O
ATOM	181	CB	ASN	A	53	-21.259	52.952	93.030	1.00	59.71	C
ATOM	182	CG	ASN	A	53	-21.564	52.516	91.631	1.00	58.23	C
ATOM	183	OD1	ASN	A	53	-22.670	52.053	91.342	1.00	59.65	O
ATOM	184	ND2	ASN	A	53	-20.585	52.655	90.745	1.00	60.87	N
ATOM	185	N	LEU	A	54	-24.532	53.913	92.675	1.00	57.17	N
ATOM	186	CA	LEU	A	54	-25.901	53.418	92.637	1.00	61.04	C
ATOM	187	C	LEU	A	54	-26.378	52.881	91.292	1.00	69.48	C
ATOM	188	O	LEU	A	54	-27.422	52.226	91.220	1.00	71.14	O
ATOM	189	CB	LEU	A	54	-26.859	54.518	93.084	1.00	52.43	C
ATOM	190	CG	LEU	A	54	-26.705	55.089	94.490	1.00	47.83	C
ATOM	191	CD1	LEU	A	54	-25.436	55.905	94.578	1.00	51.83	C
ATOM	192	CD2	LEU	A	54	-27.904	55.958	94.805	1.00	44.94	C
ATOM	193	N	ASP	A	55	-25.622	53.152	90.233	1.00	78.93	N
ATOM	194	CA	ASP	A	55	-25.995	52.715	88.884	1.00	80.51	C
ATOM	195	C	ASP	A	55	-25.857	51.206	88.701	1.00	76.75	C
ATOM	196	O	ASP	A	55	-24.906	50.731	88.079	1.00	76.16	O
ATOM	197	CB	ASP	A	55	-25.132	53.451	87.849	1.00	88.95	C
ATOM	198	CG	ASP	A	55	-25.697	53.369	86.445	1.00	92.19	C
ATOM	199	OD1	ASP	A	55	-25.060	53.916	85.523	1.00	96.75	O
ATOM	200	OD2	ASP	A	55	-26.775	52.766	86.262	1.00	89.47	O
ATOM	201	N	CYS	A	56	-26.815	50.456	89.230	1.00	76.43	N
ATOM	202	CA	CYS	A	56	-26.774	49.010	89.130	1.00	83.63	C
ATOM	203	C	CYS	A	56	-27.229	48.562	87.754	1.00	88.30	C
ATOM	204	O	CYS	A	56	-27.532	47.395	87.521	1.00	90.15	O
ATOM	205	CB	CYS	A	56	-27.630	48.416	90.242	1.00	87.27	C
ATOM	206	SG	CYS	A	56	-27.190	49.183	91.844	1.00	100.86	S
ATOM	207	N	GLN	A	57	-27.244	49.512	86.833	1.00	95.89	N
ATOM	208	CA	GLN	A	57	-27.620	49.239	85.460	1.00	105.09	C
ATOM	209	C	GLN	A	57	-26.373	48.907	84.654	1.00	107.10	C
ATOM	210	O	GLN	A	57	-26.143	47.750	84.300	1.00	106.26	O
ATOM	211	CB	GLN	A	57	-28.317	50.454	84.859	1.00	111.37	C
ATOM	212	CG	GLN	A	57	-29.779	50.532	85.205	1.00	117.81	C
ATOM	213	CD	GLN	A	57	-30.535	49.342	84.666	1.00	121.76	C
ATOM	214	OE1	GLN	A	57	-30.548	49.098	83.458	1.00	121.05	O
ATOM	215	NE2	GLN	A	57	-31.161	48.585	85.560	1.00	120.88	N
ATOM	216	N	GLU	A	58	-25.568	49.929	84.374	1.00	107.44	N
ATOM	217	CA	GLU	A	58	-24.341	49.763	83.602	1.00	102.73	C
ATOM	218	C	GLU	A	58	-23.168	49.325	84.469	1.00	92.49	C
ATOM	219	O	GLU	A	58	-22.104	48.962	83.968	1.00	97.97	O
ATOM	220	CB	GLU	A	58	-23.997	51.069	82.873	1.00	106.42	C
ATOM	221	CG	GLU	A	58	-24.926	51.375	81.703	1.00	115.27	C
ATOM	222	CD	GLU	A	58	-24.607	52.688	81.015	1.00	121.83	C
ATOM	223	OE1	GLU	A	58	-24.781	53.751	81.646	1.00	127.79	O
ATOM	224	OE2	GLU	A	58	-24.183	52.654	79.840	1.00	126.24	O
ATOM	225	N	GLU	A	59	-23.370	49.354	85.776	1.00	77.19	N
ATOM	226	CA	GLU	A	59	-22.331	48.960	86.707	1.00	71.10	C
ATOM	227	C	GLU	A	59	-23.000	48.298	87.890	1.00	64.71	C
ATOM	228	O	GLU	A	59	-23.244	48.926	88.913	1.00	66.37	O

ATOM	229	CB	GLU	A	59	-21.542	50.188	87.145	1.00	79.69	C
ATOM	230	CG	GLU	A	59	-20.580	50.696	86.081	1.00	96.00	C
ATOM	231	CD	GLU	A	59	-20.567	52.212	85.968	1.00	106.06	C
ATOM	232	OE1	GLU	A	59	-20.563	52.891	87.019	1.00	111.91	O
ATOM	233	OE2	GLU	A	59	-20.548	52.725	84.826	1.00	111.15	O
ATOM	234	N	PRO	A	60	-23.326	47.010	87.749	1.00	60.06	N
ATOM	235	CA	PRO	A	60	-23.982	46.169	88.754	1.00	63.63	C
ATOM	236	C	PRO	A	60	-23.031	45.545	89.774	1.00	67.46	C
ATOM	237	O	PRO	A	60	-23.459	45.035	90.819	1.00	63.91	O
ATOM	238	CB	PRO	A	60	-24.661	45.112	87.903	1.00	62.40	C
ATOM	239	CG	PRO	A	60	-23.633	44.894	86.838	1.00	56.39	C
ATOM	240	CD	PRO	A	60	-23.238	46.303	86.459	1.00	58.46	C
ATOM	241	N	ASP	A	61	-21.740	45.585	89.469	1.00	70.71	N
ATOM	242	CA	ASP	A	61	-20.746	44.999	90.357	1.00	71.23	C
ATOM	243	C	ASP	A	61	-20.074	45.989	91.298	1.00	65.01	C
ATOM	244	O	ASP	A	61	-19.496	45.586	92.299	1.00	60.40	O
ATOM	245	CB	ASP	A	61	-19.690	44.268	89.528	1.00	82.26	C
ATOM	246	CG	ASP	A	61	-20.283	43.147	88.695	1.00	89.82	C
ATOM	247	OD1	ASP	A	61	-20.865	42.211	89.288	1.00	86.48	O
ATOM	248	OD2	ASP	A	61	-20.169	43.204	87.450	1.00	94.31	O
ATOM	249	N	SER	A	62	-20.137	47.275	90.977	1.00	61.91	N
ATOM	250	CA	SER	A	62	-19.533	48.294	91.825	1.00	55.96	C
ATOM	251	C	SER	A	62	-20.657	48.915	92.641	1.00	48.78	C
ATOM	252	O	SER	A	62	-20.439	49.606	93.629	1.00	48.50	O
ATOM	253	CB	SER	A	62	-18.843	49.338	90.954	1.00	62.78	C
ATOM	254	OG	SER	A	62	-17.958	48.701	90.047	1.00	64.54	O
ATOM	255	N	CYS	A	63	-21.867	48.635	92.181	1.00	36.06	N
ATOM	256	CA	CYS	A	63	-23.117	49.070	92.776	1.00	32.68	C
ATOM	257	C	CYS	A	63	-23.243	48.574	94.216	1.00	26.28	C
ATOM	258	O	CYS	A	63	-22.960	47.419	94.512	1.00	40.86	O
ATOM	259	CB	CYS	A	63	-24.244	48.530	91.897	1.00	50.02	C
ATOM	260	SG	CYS	A	63	-25.788	47.955	92.660	1.00	84.72	S
ATOM	261	N	ILE	A	64	-23.669	49.460	95.108	1.00	17.87	N
ATOM	262	CA	ILE	A	64	-23.841	49.138	96.518	1.00	16.03	C
ATOM	263	C	ILE	A	64	-25.138	48.357	96.796	1.00	23.75	C
ATOM	264	O	ILE	A	64	-26.206	48.950	96.977	1.00	26.05	O
ATOM	265	CB	ILE	A	64	-23.856	50.427	97.358	1.00	11.27	C
ATOM	266	CG1	ILE	A	64	-22.539	51.180	97.179	1.00	15.20	C
ATOM	267	CG2	ILE	A	64	-24.095	50.090	98.813	1.00	14.96	C
ATOM	268	CD1	ILE	A	64	-22.486	52.490	97.923	1.00	33.05	C
ATOM	269	N	SER	A	65	-25.038	47.029	96.852	1.00	29.07	N
ATOM	270	CA	SER	A	65	-26.207	46.182	97.095	1.00	35.48	C
ATOM	271	C	SER	A	65	-25.910	44.988	97.987	1.00	39.53	C
ATOM	272	O	SER	A	65	-24.763	44.549	98.102	1.00	46.31	O
ATOM	273	CB	SER	A	65	-26.725	45.623	95.786	1.00	42.49	C
ATOM	274	OG	SER	A	65	-26.003	44.448	95.475	1.00	57.55	O
ATOM	275	N	GLU	A	66	-26.964	44.432	98.579	1.00	46.25	N
ATOM	276	CA	GLU	A	66	-26.808	43.265	99.442	1.00	51.68	C
ATOM	277	C	GLU	A	66	-26.093	42.193	98.639	1.00	49.33	C
ATOM	278	O	GLU	A	66	-25.391	41.340	99.185	1.00	48.58	O
ATOM	279	CB	GLU	A	66	-28.172	42.753	99.939	1.00	52.13	C
ATOM	280	CG	GLU	A	66	-29.251	42.627	98.884	1.00	60.06	C
ATOM	281	CD	GLU	A	66	-30.427	41.805	99.368	1.00	66.09	C
ATOM	282	OE1	GLU	A	66	-30.263	40.579	99.520	1.00	60.99	O
ATOM	283	OE2	GLU	A	66	-31.510	42.378	99.611	1.00	70.88	O
ATOM	284	N	LYS	A	67	-26.263	42.263	97.325	1.00	50.35	N
ATOM	285	CA	LYS	A	67	-25.616	41.319	96.441	1.00	59.16	C
ATOM	286	C	LYS	A	67	-24.120	41.573	96.569	1.00	50.62	C
ATOM	287	O	LYS	A	67	-23.341	40.637	96.721	1.00	57.82	O
ATOM	288	CB	LYS	A	67	-26.108	41.524	95.007	1.00	76.41	C
ATOM	289	CG	LYS	A	67	-27.591	41.155	94.806	1.00	93.54	C
ATOM	290	CD	LYS	A	67	-28.450	42.296	94.217	1.00	102.67	C
ATOM	291	CE	LYS	A	67	-27.959	42.782	92.844	1.00	103.90	C
ATOM	292	NZ	LYS	A	67	-27.807	41.690	91.845	1.00	98.42	N
ATOM	293	N	LEU	A	68	-23.719	42.839	96.543	1.00	41.00	N
ATOM	294	CA	LEU	A	68	-22.304	43.169	96.681	1.00	35.92	C
ATOM	295	C	LEU	A	68	-21.710	42.564	97.957	1.00	28.69	C
ATOM	296	O	LEU	A	68	-20.907	41.628	97.913	1.00	30.00	O
ATOM	297	CB	LEU	A	68	-22.109	44.691	96.683	1.00	37.88	C
ATOM	298	CG	LEU	A	68	-20.742	45.295	97.056	1.00	30.06	C
ATOM	299	CD1	LEU	A	68	-19.593	44.472	96.493	1.00	32.82	C
ATOM	300	CD2	LEU	A	68	-20.684	46.722	96.528	1.00	35.84	C
ATOM	301	N	PHE	A	69	-22.105	43.100	99.099	1.00	21.07	N
ATOM	302	CA	PHE	A	69	-21.599	42.597	100.374	1.00	29.31	C
ATOM	303	C	PHE	A	69	-21.635	41.071	100.464	1.00	35.20	C
ATOM	304	O	PHE	A	69	-20.617	40.426	100.731	1.00	35.73	O
ATOM	305	CB	PHE	A	69	-22.413	43.197	101.519	1.00	26.29	C
ATOM	306	CG	PHE	A	69	-22.200	44.675	101.698	1.00	26.15	C
ATOM	307	CD1	PHE	A	69	-21.182	45.145	102.522	1.00	24.44	C



ATOM	308	CD2	PHE	A	69	-23.007	45.599	101.032	1.00	28.73	C
ATOM	309	CE1	PHE	A	69	-20.973	46.512	102.682	1.00	27.34	C
ATOM	310	CE2	PHE	A	69	-22.804	46.965	101.187	1.00	23.88	C
ATOM	311	CZ	PHE	A	69	-21.786	47.423	102.015	1.00	25.71	C
ATOM	312	N	MET	A	70	-22.825	40.516	100.240	1.00	43.20	N
ATOM	313	CA	MET	A	70	-23.073	39.078	100.287	1.00	47.28	C
ATOM	314	C	MET	A	70	-21.931	38.329	99.626	1.00	46.42	C
ATOM	315	O	MET	A	70	-21.475	37.287	100.107	1.00	49.69	O
ATOM	316	CB	MET	A	70	-24.379	38.755	99.563	1.00	43.22	C
ATOM	317	CG	MET	A	70	-24.925	37.381	99.864	1.00	46.78	C
ATOM	318	SD	MET	A	70	-26.352	36.950	98.839	1.00	70.05	S
ATOM	319	CE	MET	A	70	-27.493	38.341	99.190	1.00	58.66	C
ATOM	320	N	GLU	A	71	-21.479	38.872	98.505	1.00	43.02	N
ATOM	321	CA	GLU	A	71	-20.379	38.282	97.768	1.00	43.81	C
ATOM	322	C	GLU	A	71	-19.153	38.421	98.664	1.00	42.37	C
ATOM	323	O	GLU	A	71	-18.559	37.431	99.095	1.00	46.48	O
ATOM	324	CB	GLU	A	71	-20.185	39.040	96.454	1.00	52.02	C
ATOM	325	CG	GLU	A	71	-19.343	38.314	95.414	1.00	61.53	C
ATOM	326	CD	GLU	A	71	-19.348	39.006	94.047	1.00	67.25	C
ATOM	327	OE1	GLU	A	71	-18.665	38.503	93.127	1.00	69.17	O
ATOM	328	OE2	GLU	A	71	-20.034	40.045	93.889	1.00	60.67	O
ATOM	329	N	MET	A	72	-18.799	39.666	98.952	1.00	39.30	N
ATOM	330	CA	MET	A	72	-17.669	39.969	99.807	1.00	40.60	C
ATOM	331	C	MET	A	72	-17.607	39.067	101.042	1.00	47.07	C
ATOM	332	O	MET	A	72	-16.578	38.441	101.298	1.00	47.00	O
ATOM	333	CB	MET	A	72	-17.747	41.430	100.226	1.00	37.04	C
ATOM	334	CG	MET	A	72	-17.390	42.385	99.113	1.00	20.85	C
ATOM	335	SD	MET	A	72	-15.643	42.198	98.762	1.00	34.40	S
ATOM	336	CE	MET	A	72	-15.552	42.658	97.119	1.00	3.31	C
ATOM	337	N	ALA	A	73	-18.704	39.004	101.799	1.00	51.91	N
ATOM	338	CA	ALA	A	73	-18.796	38.175	103.008	1.00	50.87	C
ATOM	339	C	ALA	A	73	-18.268	36.767	102.760	1.00	47.48	C
ATOM	340	O	ALA	A	73	-17.482	36.222	103.541	1.00	36.90	O
ATOM	341	CB	ALA	A	73	-20.237	38.098	103.464	1.00	61.96	C
ATOM	342	N	GLU	A	74	-18.740	36.181	101.666	1.00	48.41	N
ATOM	343	CA	GLU	A	74	-18.331	34.851	101.257	1.00	50.32	C
ATOM	344	C	GLU	A	74	-16.810	34.785	101.268	1.00	44.48	C
ATOM	345	O	GLU	A	74	-16.215	33.957	101.959	1.00	35.80	O
ATOM	346	CB	GLU	A	74	-18.844	34.572	99.841	1.00	64.11	C
ATOM	347	CG	GLU	A	74	-19.454	33.198	99.656	1.00	88.13	C
ATOM	348	CD	GLU	A	74	-18.490	32.075	99.998	1.00	104.29	C
ATOM	349	OE1	GLU	A	74	-17.493	31.893	99.263	1.00	112.61	O
ATOM	350	OE2	GLU	A	74	-18.733	31.376	101.008	1.00	111.41	O
ATOM	351	N	LEU	A	75	-16.203	35.687	100.502	1.00	44.39	N
ATOM	352	CA	LEU	A	75	-14.754	35.784	100.355	1.00	43.26	C
ATOM	353	C	LEU	A	75	-13.938	35.894	101.631	1.00	39.65	C
ATOM	354	O	LEU	A	75	-13.046	35.081	101.861	1.00	42.63	O
ATOM	355	CB	LEU	A	75	-14.402	36.965	99.464	1.00	47.71	C
ATOM	356	CG	LEU	A	75	-14.719	36.813	97.981	1.00	56.06	C
ATOM	357	CD1	LEU	A	75	-16.201	36.526	97.782	1.00	66.62	C
ATOM	358	CD2	LEU	A	75	-14.308	38.085	97.255	1.00	64.54	C
ATOM	359	N	MET	A	76	-14.212	36.911	102.441	1.00	34.46	N
ATOM	360	CA	MET	A	76	-13.474	37.082	103.685	1.00	32.44	C
ATOM	361	C	MET	A	76	-13.219	35.721	104.305	1.00	37.52	C
ATOM	362	O	MET	A	76	-12.145	35.464	104.851	1.00	44.32	O
ATOM	363	CB	MET	A	76	-14.260	37.954	104.653	1.00	28.67	C
ATOM	364	CG	MET	A	76	-14.383	39.378	104.182	1.00	27.61	C
ATOM	365	SD	MET	A	76	-15.332	40.382	105.305	1.00	43.61	S
ATOM	366	CE	MET	A	76	-14.098	40.677	106.578	1.00	48.42	C
ATOM	367	N	VAL	A	77	-14.220	34.853	104.196	1.00	41.86	N
ATOM	368	CA	VAL	A	77	-14.145	33.495	104.706	1.00	42.36	C
ATOM	369	C	VAL	A	77	-13.260	32.629	103.799	1.00	39.82	C
ATOM	370	O	VAL	A	77	-12.404	31.885	104.283	1.00	38.89	O
ATOM	371	CB	VAL	A	77	-15.545	32.869	104.764	1.00	41.56	C
ATOM	372	CG1	VAL	A	77	-15.466	31.501	105.407	1.00	43.46	C
ATOM	373	CG2	VAL	A	77	-16.499	33.776	105.531	1.00	45.91	C
ATOM	374	N	SER	A	78	-13.476	32.750	102.489	1.00	36.14	N
ATOM	375	CA	SER	A	78	-12.734	32.010	101.476	1.00	42.45	C
ATOM	376	C	SER	A	78	-11.227	32.115	101.584	1.00	46.34	C
ATOM	377	O	SER	A	78	-10.578	31.218	102.117	1.00	54.34	O
ATOM	378	CB	SER	A	78	-13.152	32.462	100.077	1.00	47.24	C
ATOM	379	OG	SER	A	78	-14.527	32.205	99.847	1.00	62.25	O
ATOM	380	N	GLU	A	79	-10.660	33.196	101.059	1.00	48.13	N
ATOM	381	CA	GLU	A	79	-9.207	33.385	101.098	1.00	49.45	C
ATOM	382	C	GLU	A	79	-8.654	33.641	102.504	1.00	47.50	C
ATOM	383	O	GLU	A	79	-7.646	34.328	102.681	1.00	44.99	O
ATOM	384	CB	GLU	A	79	-8.795	34.554	100.201	1.00	51.38	C
ATOM	385	CG	GLU	A	79	-9.060	34.326	98.722	1.00	58.71	C
ATOM	386	CD	GLU	A	79	-8.227	33.197	98.148	1.00	60.00	C

ATOM	387	OE1	GLU	A	79	-7.038	33.090	98.515	1.00	66.35	O
ATOM	388	OE2	GLU	A	79	-8.763	32.419	97.332	1.00	54.42	O
ATOM	389	N	GLY	A	80	-9.325	33.071	103.498	1.00	48.14	N
ATOM	390	CA	GLY	A	80	-8.893	33.188	104.876	1.00	48.70	C
ATOM	391	C	GLY	A	80	-8.650	34.557	105.470	1.00	46.09	C
ATOM	392	O	GLY	A	80	-7.648	34.760	106.153	1.00	47.24	O
ATOM	393	N	TRP	A	81	-9.543	35.504	105.214	1.00	41.67	N
ATOM	394	CA	TRP	A	81	-9.399	36.836	105.796	1.00	34.07	C
ATOM	395	C	TRP	A	81	-9.847	36.737	107.248	1.00	33.67	C
ATOM	396	O	TRP	A	81	-9.191	37.240	108.160	1.00	32.32	O
ATOM	397	CB	TRP	A	81	-10.279	37.847	105.056	1.00	18.60	C
ATOM	398	CG	TRP	A	81	-9.763	38.170	103.718	1.00	20.67	C
ATOM	399	CD1	TRP	A	81	-10.200	37.669	102.522	1.00	35.06	C
ATOM	400	CD2	TRP	A	81	-8.659	39.035	103.416	1.00	23.59	C
ATOM	401	NE1	TRP	A	81	-9.434	38.170	101.489	1.00	37.21	N
ATOM	402	CE2	TRP	A	81	-8.483	39.011	102.011	1.00	31.74	C
ATOM	403	CE3	TRP	A	81	-7.800	39.828	104.197	1.00	25.29	C
ATOM	404	CZ2	TRP	A	81	-7.480	39.750	101.370	1.00	38.96	C
ATOM	405	CZ3	TRP	A	81	-6.805	40.561	103.562	1.00	27.92	C
ATOM	406	CH2	TRP	A	81	-6.654	40.517	102.160	1.00	35.85	C
ATOM	407	N	LYS	A	82	-10.973	36.066	107.446	1.00	29.50	N
ATOM	408	CA	LYS	A	82	-11.523	35.887	108.769	1.00	25.97	C
ATOM	409	C	LYS	A	82	-10.447	35.315	109.671	1.00	31.15	C
ATOM	410	O	LYS	A	82	-10.174	35.859	110.734	1.00	15.81	O
ATOM	411	CB	LYS	A	82	-12.719	34.947	108.700	1.00	29.74	C
ATOM	412	CG	LYS	A	82	-13.480	34.802	110.000	1.00	24.33	C
ATOM	413	CD	LYS	A	82	-14.800	34.104	109.755	1.00	24.58	C
ATOM	414	CE	LYS	A	82	-15.483	33.751	111.052	1.00	35.92	C
ATOM	415	NZ	LYS	A	82	-14.597	32.898	111.886	1.00	45.25	N
ATOM	416	N	ASP	A	83	-9.824	34.231	109.218	1.00	45.47	N
ATOM	417	CA	ASP	A	83	-8.767	33.550	109.967	1.00	58.09	C
ATOM	418	C	ASP	A	83	-7.665	34.490	110.441	1.00	56.61	C
ATOM	419	O	ASP	A	83	-7.115	34.320	111.530	1.00	59.34	O
ATOM	420	CB	ASP	A	83	-8.128	32.452	109.104	1.00	67.45	C
ATOM	421	CG	ASP	A	83	-9.122	31.372	108.679	1.00	76.98	C
ATOM	422	OD1	ASP	A	83	-8.792	30.616	107.737	1.00	83.43	O
ATOM	423	OD2	ASP	A	83	-10.218	31.272	109.283	1.00	74.14	O
ATOM	424	N	ALA	A	84	-7.336	35.473	109.610	1.00	51.70	N
ATOM	425	CA	ALA	A	84	-6.280	36.423	109.937	1.00	46.56	C
ATOM	426	C	ALA	A	84	-6.711	37.464	110.964	1.00	45.48	C
ATOM	427	O	ALA	A	84	-5.875	38.059	111.629	1.00	38.08	O
ATOM	428	CB	ALA	A	84	-5.783	37.107	108.664	1.00	50.31	C
ATOM	429	N	GLY	A	85	-8.013	37.690	111.095	1.00	45.96	N
ATOM	430	CA	GLY	A	85	-8.478	38.666	112.069	1.00	49.30	C
ATOM	431	C	GLY	A	85	-9.677	39.515	111.673	1.00	45.07	C
ATOM	432	O	GLY	A	85	-10.546	39.805	112.504	1.00	39.93	O
ATOM	433	N	TYR	A	86	-9.723	39.935	110.412	1.00	44.82	N
ATOM	434	CA	TYR	A	86	-10.827	40.757	109.937	1.00	41.82	C
ATOM	435	C	TYR	A	86	-12.082	39.964	110.200	1.00	41.30	C
ATOM	436	O	TYR	A	86	-12.242	38.860	109.697	1.00	41.51	O
ATOM	437	CB	TYR	A	86	-10.655	41.047	108.453	1.00	37.34	C
ATOM	438	CG	TYR	A	86	-9.314	41.665	108.163	1.00	38.89	C
ATOM	439	CD1	TYR	A	86	-9.104	43.030	108.314	1.00	45.61	C
ATOM	440	CD2	TYR	A	86	-8.230	40.870	107.815	1.00	35.97	C
ATOM	441	CE1	TYR	A	86	-7.841	43.585	108.127	1.00	46.91	C
ATOM	442	CE2	TYR	A	86	-6.965	41.413	107.630	1.00	39.36	C
ATOM	443	CZ	TYR	A	86	-6.776	42.767	107.786	1.00	45.40	C
ATOM	444	OH	TYR	A	86	-5.521	43.297	107.606	1.00	46.34	O
ATOM	445	N	GLU	A	87	-12.964	40.526	111.011	1.00	39.34	N
ATOM	446	CA	GLU	A	87	-14.183	39.836	111.369	1.00	40.09	C
ATOM	447	C	GLU	A	87	-15.422	40.699	111.219	1.00	32.92	C
ATOM	448	O	GLU	A	87	-16.548	40.221	111.374	1.00	37.99	O
ATOM	449	CB	GLU	A	87	-14.041	39.339	112.799	1.00	52.92	C
ATOM	450	CG	GLU	A	87	-15.316	38.889	113.460	1.00	76.75	C
ATOM	451	CD	GLU	A	87	-15.068	38.461	114.891	1.00	93.47	C
ATOM	452	OE1	GLU	A	87	-14.373	39.206	115.617	1.00	100.50	O
ATOM	453	OE2	GLU	A	87	-15.564	37.387	115.294	1.00	100.39	O
ATOM	454	N	TYR	A	88	-15.211	41.968	110.896	1.00	29.14	N
ATOM	455	CA	TYR	A	88	-16.313	42.908	110.724	1.00	30.69	C
ATOM	456	C	TYR	A	88	-16.482	43.390	109.285	1.00	32.71	C
ATOM	457	O	TYR	A	88	-15.559	43.949	108.682	1.00	34.05	O
ATOM	458	CB	TYR	A	88	-16.109	44.119	111.631	1.00	20.03	C
ATOM	459	CG	TYR	A	88	-16.466	43.888	113.081	1.00	20.03	C
ATOM	460	CD1	TYR	A	88	-17.761	44.135	113.549	1.00	18.12	C
ATOM	461	CD2	TYR	A	88	-15.516	43.443	113.985	1.00	19.14	C
ATOM	462	CE1	TYR	A	88	-18.096	43.952	114.875	1.00	19.29	C
ATOM	463	CE2	TYR	A	88	-15.843	43.254	115.321	1.00	26.80	C
ATOM	464	CZ	TYR	A	88	-17.132	43.513	115.759	1.00	26.99	C
ATOM	465	OH	TYR	A	88	-17.448	43.352	117.088	1.00	28.89	O

ATOM	466	N	LEU	A	89	-17.674	43.170	108.741	1.00	33.86	N
ATOM	467	CA	LEU	A	89	-18.009	43.596	107.381	1.00	33.30	C
ATOM	468	C	LEU	A	89	-18.995	44.750	107.578	1.00	33.86	C
ATOM	469	O	LEU	A	89	-20.084	44.563	108.146	1.00	30.96	O
ATOM	470	CB	LEU	A	89	-18.659	42.438	106.619	1.00	28.47	C
ATOM	471	CG	LEU	A	89	-19.039	42.609	105.153	1.00	39.91	C
ATOM	472	CD1	LEU	A	89	-17.858	43.148	104.383	1.00	59.81	C
ATOM	473	CD2	LEU	A	89	-19.474	41.267	104.587	1.00	48.59	C
ATOM	474	N	CYS	A	90	-18.622	45.942	107.121	1.00	31.85	N
ATOM	475	CA	CYS	A	90	-19.479	47.092	107.340	1.00	33.23	C
ATOM	476	C	CYS	A	90	-19.899	47.915	106.156	1.00	36.85	C
ATOM	477	O	CYS	A	90	-19.133	48.143	105.222	1.00	40.56	O
ATOM	478	CB	CYS	A	90	-18.823	47.994	108.362	1.00	32.78	C
ATOM	479	SG	CYS	A	90	-18.214	47.010	109.726	1.00	46.36	S
ATOM	480	N	ILE	A	91	-21.140	48.374	106.244	1.00	40.65	N
ATOM	481	CA	ILE	A	91	-21.754	49.193	105.223	1.00	38.29	C
ATOM	482	C	ILE	A	91	-21.589	50.643	105.610	1.00	39.61	C
ATOM	483	O	ILE	A	91	-21.740	51.013	106.774	1.00	41.42	O
ATOM	484	CB	ILE	A	91	-23.256	48.938	105.120	1.00	36.59	C
ATOM	485	CG1	ILE	A	91	-23.530	47.449	104.971	1.00	40.49	C
ATOM	486	CG2	ILE	A	91	-23.824	49.701	103.943	1.00	32.88	C
ATOM	487	CD1	ILE	A	91	-24.996	47.109	105.012	1.00	49.06	C
ATOM	488	N	ASP	A	92	-21.284	51.461	104.616	1.00	38.83	N
ATOM	489	CA	ASP	A	92	-21.113	52.879	104.831	1.00	41.57	C
ATOM	490	C	ASP	A	92	-22.311	53.587	104.201	1.00	41.21	C
ATOM	491	O	ASP	A	92	-23.258	52.934	103.768	1.00	49.28	O
ATOM	492	CB	ASP	A	92	-19.796	53.343	104.207	1.00	42.41	C
ATOM	493	CG	ASP	A	92	-19.438	54.766	104.596	1.00	43.83	C
ATOM	494	OD1	ASP	A	92	-19.865	55.691	103.865	1.00	51.06	O
ATOM	495	OD2	ASP	A	92	-18.750	54.950	105.637	1.00	19.32	O
ATOM	496	N	ASP	A	93	-22.266	54.912	104.154	1.00	38.07	N
ATOM	497	CA	ASP	A	93	-23.345	55.718	103.600	1.00	37.38	C
ATOM	498	C	ASP	A	93	-23.908	55.187	102.283	1.00	33.12	C
ATOM	499	O	ASP	A	93	-23.263	54.396	101.577	1.00	23.80	O
ATOM	500	CB	ASP	A	93	-22.847	57.142	103.381	1.00	40.75	C
ATOM	501	CG	ASP	A	93	-23.949	58.159	103.486	1.00	40.94	C
ATOM	502	OD1	ASP	A	93	-25.098	57.826	103.122	1.00	46.78	O
ATOM	503	OD2	ASP	A	93	-23.668	59.293	103.930	1.00	44.21	O
ATOM	504	N	CYS	A	94	-25.128	55.613	101.967	1.00	31.07	N
ATOM	505	CA	CYS	A	94	-25.773	55.230	100.714	1.00	33.68	C
ATOM	506	C	CYS	A	94	-26.370	53.830	100.663	1.00	29.32	C
ATOM	507	O	CYS	A	94	-26.602	53.281	99.595	1.00	33.63	O
ATOM	508	CB	CYS	A	94	-24.777	55.426	99.564	1.00	32.58	C
ATOM	509	SG	CYS	A	94	-24.368	57.192	99.335	1.00	56.68	S
ATOM	510	N	TRP	A	95	-26.644	53.261	101.821	1.00	24.27	N
ATOM	511	CA	TRP	A	95	-27.224	51.929	101.891	1.00	30.02	C
ATOM	512	C	TRP	A	95	-28.720	52.075	102.131	1.00	43.86	C
ATOM	513	O	TRP	A	95	-29.482	51.111	101.986	1.00	45.97	O
ATOM	514	CB	TRP	A	95	-26.646	51.167	103.082	1.00	31.37	C
ATOM	515	CG	TRP	A	95	-27.041	51.785	104.400	1.00	31.21	C
ATOM	516	CD1	TRP	A	95	-26.362	52.752	105.091	1.00	35.75	C
ATOM	517	CD2	TRP	A	95	-28.234	51.520	105.152	1.00	30.42	C
ATOM	518	NE1	TRP	A	95	-27.058	53.106	106.224	1.00	33.13	N
ATOM	519	CE2	TRP	A	95	-28.212	52.369	106.284	1.00	34.20	C
ATOM	520	CE3	TRP	A	95	-29.325	50.657	104.975	1.00	38.45	C
ATOM	521	CZ2	TRP	A	95	-29.232	52.369	107.242	1.00	41.21	C
ATOM	522	CZ3	TRP	A	95	-30.344	50.661	105.934	1.00	46.80	C
ATOM	523	CH2	TRP	A	95	-30.288	51.515	107.047	1.00	47.81	C
ATOM	524	N	MET	A	96	-29.126	53.279	102.524	1.00	56.48	N
ATOM	525	CA	MET	A	96	-30.514	53.544	102.853	1.00	60.38	C
ATOM	526	C	MET	A	96	-31.398	54.078	101.742	1.00	59.84	C
ATOM	527	O	MET	A	96	-30.953	54.774	100.828	1.00	53.40	O
ATOM	528	CB	MET	A	96	-30.574	54.498	104.049	1.00	61.17	C
ATOM	529	CG	MET	A	96	-29.632	55.693	103.933	1.00	60.98	C
ATOM	530	SD	MET	A	96	-29.696	56.754	105.387	1.00	57.31	S
ATOM	531	CE	MET	A	96	-29.014	55.691	106.626	1.00	49.16	C
ATOM	532	N	ALA	A	97	-32.671	53.725	101.839	1.00	59.61	N
ATOM	533	CA	ALA	A	97	-33.664	54.198	100.903	1.00	57.58	C
ATOM	534	C	ALA	A	97	-33.879	55.656	101.316	1.00	58.35	C
ATOM	535	O	ALA	A	97	-33.478	56.067	102.405	1.00	63.58	O
ATOM	536	CB	ALA	A	97	-34.935	53.409	101.058	1.00	59.55	C
ATOM	537	N	PRO	A	98	-34.501	56.457	100.446	1.00	57.40	N
ATOM	538	CA	PRO	A	98	-34.811	57.880	100.607	1.00	57.23	C
ATOM	539	C	PRO	A	98	-35.465	58.376	101.881	1.00	61.14	C
ATOM	540	O	PRO	A	98	-35.261	59.528	102.252	1.00	62.28	O
ATOM	541	CB	PRO	A	98	-35.651	58.174	99.389	1.00	60.63	C
ATOM	542	CG	PRO	A	98	-34.989	57.331	98.364	1.00	68.69	C
ATOM	543	CD	PRO	A	98	-34.859	56.015	99.092	1.00	59.58	C
ATOM	544	N	GLN	A	99	-36.275	57.551	102.535	1.00	68.09	N

ATOM	545	CA	GLN	A	99	-36.894	57.990	103.784	1.00	73.61	C
ATOM	546	C	GLN	A	99	-37.551	56.923	104.630	1.00	75.40	C
ATOM	547	O	GLN	A	99	-37.772	55.790	104.201	1.00	80.81	O
ATOM	548	CB	GLN	A	99	-37.910	59.118	103.550	1.00	80.34	C
ATOM	549	CG	GLN	A	99	-39.168	58.723	102.815	1.00	89.00	C
ATOM	550	CD	GLN	A	99	-38.941	58.557	101.330	1.00	91.93	C
ATOM	551	OE1	GLN	A	99	-38.264	57.625	100.890	1.00	92.41	O
ATOM	552	NE2	GLN	A	99	-39.498	59.473	100.545	1.00	89.50	N
ATOM	553	N	ARG	A	100	-37.851	57.345	105.851	1.00	75.98	N
ATOM	554	CA	ARG	A	100	-38.464	56.537	106.885	1.00	80.55	C
ATOM	555	C	ARG	A	100	-39.716	55.842	106.399	1.00	82.57	C
ATOM	556	O	ARG	A	100	-40.319	56.259	105.414	1.00	80.59	O
ATOM	557	CB	ARG	A	100	-38.823	57.435	108.069	1.00	80.70	C
ATOM	558	CG	ARG	A	100	-37.709	58.391	108.501	1.00	75.07	C
ATOM	559	CD	ARG	A	100	-36.739	57.726	109.462	1.00	64.10	C
ATOM	560	NE	ARG	A	100	-35.661	58.621	109.876	1.00	52.24	N
ATOM	561	CZ	ARG	A	100	-34.704	58.281	110.733	1.00	47.35	N
ATOM	562	NH1	ARG	A	100	-34.693	57.066	111.271	1.00	40.85	N
ATOM	563	NH2	ARG	A	100	-33.751	59.149	111.039	1.00	47.99	N
ATOM	564	N	ASP	A	101	-40.101	54.780	107.103	1.00	86.12	N
ATOM	565	CA	ASP	A	101	-41.307	54.038	106.760	1.00	92.31	C
ATOM	566	C	ASP	A	101	-42.496	54.603	107.536	1.00	98.60	C
ATOM	567	O	ASP	A	101	-42.369	55.594	108.268	1.00	92.38	O
ATOM	568	CB	ASP	A	101	-41.144	52.510	107.023	1.00	88.34	C
ATOM	569	CG	ASP	A	101	-40.924	52.151	108.502	1.00	78.93	C
ATOM	570	OD1	ASP	A	101	-41.624	52.699	109.372	1.00	78.59	O
ATOM	571	OD2	ASP	A	101	-40.062	51.292	108.791	1.00	69.58	O
ATOM	572	N	SER	A	102	-43.657	53.987	107.347	1.00	106.35	N
ATOM	573	CA	SER	A	102	-44.866	54.419	108.030	1.00	106.95	C
ATOM	574	C	SER	A	102	-44.581	54.527	109.520	1.00	105.57	C
ATOM	575	O	SER	A	102	-45.012	55.473	110.180	1.00	103.49	O
ATOM	576	CB	SER	A	102	-45.991	53.415	107.772	1.00	106.67	C
ATOM	577	OG	SER	A	102	-45.534	52.081	107.928	1.00	97.92	O
ATOM	578	N	GLU	A	103	-43.834	53.550	110.029	1.00	104.74	N
ATOM	579	CA	GLU	A	103	-43.456	53.484	111.437	1.00	105.44	C
ATOM	580	C	GLU	A	103	-42.482	54.602	111.787	1.00	99.30	C
ATOM	581	O	GLU	A	103	-42.400	55.025	112.936	1.00	97.60	O
ATOM	582	CB	GLU	A	103	-42.808	52.129	111.733	1.00	120.87	C
ATOM	583	CG	GLU	A	103	-42.725	51.763	113.207	1.00	138.34	C
ATOM	584	CD	GLU	A	103	-44.085	51.428	113.796	1.00	149.87	C
ATOM	585	OE1	GLU	A	103	-44.777	50.556	113.228	1.00	156.42	O
ATOM	586	OE2	GLU	A	103	-44.461	52.022	114.830	1.00	153.81	O
ATOM	587	N	GLY	A	104	-41.730	55.073	110.799	1.00	93.42	N
ATOM	588	CA	GLY	A	104	-40.790	56.153	111.053	1.00	86.33	C
ATOM	589	C	GLY	A	104	-39.355	55.715	111.299	1.00	80.52	C
ATOM	590	O	GLY	A	104	-38.530	56.511	111.741	1.00	76.38	O
ATOM	591	N	ARG	A	105	-39.055	54.451	111.023	1.00	74.97	N
ATOM	592	CA	ARG	A	105	-37.701	53.942	111.194	1.00	66.50	C
ATOM	593	C	ARG	A	105	-37.060	53.991	109.821	1.00	62.55	C
ATOM	594	O	ARG	A	105	-37.726	54.286	108.827	1.00	61.70	O
ATOM	595	CB	ARG	A	105	-37.728	52.500	111.665	1.00	67.28	C
ATOM	596	CG	ARG	A	105	-38.680	52.241	112.790	1.00	71.50	C
ATOM	597	CD	ARG	A	105	-38.708	50.774	113.114	1.00	81.08	C
ATOM	598	NE	ARG	A	105	-39.129	50.549	114.489	1.00	101.63	N
ATOM	599	CZ	ARG	A	105	-39.140	49.361	115.086	1.00	112.71	C
ATOM	600	NH1	ARG	A	105	-38.755	48.275	114.427	1.00	117.25	N
ATOM	601	NH2	ARG	A	105	-39.529	49.259	116.350	1.00	120.85	N
ATOM	602	N	LEU	A	106	-35.774	53.694	109.743	1.00	57.99	N
ATOM	603	CA	LEU	A	106	-35.119	53.714	108.449	1.00	53.74	C
ATOM	604	C	LEU	A	106	-35.525	52.519	107.615	1.00	52.72	C
ATOM	605	O	LEU	A	106	-36.427	51.768	107.966	1.00	59.39	O
ATOM	606	CB	LEU	A	106	-33.618	53.720	108.642	1.00	49.89	C
ATOM	607	CG	LEU	A	106	-33.326	54.877	109.573	1.00	53.87	C
ATOM	608	CD1	LEU	A	106	-32.012	54.646	110.288	1.00	56.85	C
ATOM	609	CD2	LEU	A	106	-33.332	56.182	108.782	1.00	65.81	C
ATOM	610	N	GLN	A	107	-34.838	52.353	106.500	1.00	49.03	N
ATOM	611	CA	GLN	A	107	-35.108	51.257	105.601	1.00	50.68	C
ATOM	612	C	GLN	A	107	-34.066	51.330	104.529	1.00	47.10	C
ATOM	613	O	GLN	A	107	-33.730	52.413	104.059	1.00	46.93	O
ATOM	614	CB	GLN	A	107	-36.501	51.396	104.990	1.00	64.70	C
ATOM	615	CG	GLN	A	107	-36.833	52.801	104.492	1.00	75.71	C
ATOM	616	CD	GLN	A	107	-38.271	52.926	104.010	1.00	77.30	C
ATOM	617	OE1	GLN	A	107	-39.179	52.374	104.619	1.00	78.88	O
ATOM	618	NE2	GLN	A	107	-38.483	53.660	102.920	1.00	74.52	N
ATOM	619	N	ALA	A	108	-33.530	50.174	104.171	1.00	44.21	N
ATOM	620	CA	ALA	A	108	-32.523	50.101	103.134	1.00	45.01	C
ATOM	621	C	ALA	A	108	-33.214	50.307	101.806	1.00	46.03	C
ATOM	622	O	ALA	A	108	-34.401	50.040	101.675	1.00	45.34	O
ATOM	623	CB	ALA	A	108	-31.853	48.748	103.158	1.00	50.26	C

ATOM	624	N	ASP	A	109	-32.468	50.792	100.824	1.00	50.12	N
ATOM	625	CA	ASP	A	109	-33.011	51.006	99.495	1.00	58.74	C
ATOM	626	C	ASP	A	109	-33.751	49.727	99.096	1.00	60.18	C
ATOM	627	O	ASP	A	109	-33.189	48.636	99.117	1.00	60.68	O
ATOM	628	CB	ASP	A	109	-31.876	51.288	98.524	1.00	65.46	C
ATOM	629	CG	ASP	A	109	-32.368	51.750	97.184	1.00	69.48	C
ATOM	630	OD1	ASP	A	109	-32.987	52.833	97.132	1.00	77.79	O
ATOM	631	OD2	ASP	A	109	-32.134	51.036	96.186	1.00	64.36	O
ATOM	632	N	PRO	A	110	-35.029	49.850	98.725	1.00	63.63	N
ATOM	633	CA	PRO	A	110	-35.869	48.718	98.328	1.00	68.57	C
ATOM	634	C	PRO	A	110	-35.279	47.860	97.227	1.00	68.18	C
ATOM	635	O	PRO	A	110	-35.295	46.633	97.303	1.00	69.60	O
ATOM	636	CB	PRO	A	110	-37.157	49.390	97.871	1.00	72.56	C
ATOM	637	CG	PRO	A	110	-37.174	50.668	98.646	1.00	71.02	C
ATOM	638	CD	PRO	A	110	-35.750	51.117	98.532	1.00	68.06	C
ATOM	639	N	GLN	A	111	-34.761	48.523	96.201	1.00	69.52	N
ATOM	640	CA	GLN	A	111	-34.185	47.846	95.047	1.00	69.50	C
ATOM	641	C	GLN	A	111	-32.822	47.199	95.308	1.00	65.01	C
ATOM	642	O	GLN	A	111	-32.589	46.057	94.915	1.00	69.57	O
ATOM	643	CB	GLN	A	111	-34.075	48.831	93.877	1.00	77.55	C
ATOM	644	CG	GLN	A	111	-35.379	49.542	93.519	1.00	91.86	C
ATOM	645	CD	GLN	A	111	-35.797	50.560	94.562	1.00	95.66	C
ATOM	646	OE1	GLN	A	111	-35.040	51.469	94.889	1.00	97.70	O
ATOM	647	NE2	GLN	A	111	-37.009	50.415	95.083	1.00	90.78	N
ATOM	648	N	ARG	A	112	-31.933	47.925	95.979	1.00	57.71	N
ATOM	649	CA	ARG	A	112	-30.598	47.416	96.278	1.00	49.91	C
ATOM	650	C	ARG	A	112	-30.535	46.547	97.551	1.00	46.94	C
ATOM	651	O	ARG	A	112	-29.542	45.863	97.803	1.00	39.87	O
ATOM	652	CB	ARG	A	112	-29.614	48.597	96.367	1.00	48.63	C
ATOM	653	CG	ARG	A	112	-29.482	49.367	95.056	1.00	49.72	C
ATOM	654	CD	ARG	A	112	-28.531	50.554	95.113	1.00	46.10	C
ATOM	655	NE	ARG	A	112	-29.063	51.668	95.887	1.00	52.81	N
ATOM	656	CZ	ARG	A	112	-28.722	51.919	97.144	1.00	68.43	C
ATOM	657	NH1	ARG	A	112	-27.848	51.127	97.747	1.00	79.08	N
ATOM	658	NH2	ARG	A	112	-29.252	52.948	97.801	1.00	75.10	N
ATOM	659	N	PHE	A	113	-31.605	46.555	98.339	1.00	50.25	N
ATOM	660	CA	PHE	A	113	-31.642	45.774	99.572	1.00	50.71	C
ATOM	661	C	PHE	A	113	-33.074	45.326	99.850	1.00	52.92	C
ATOM	662	O	PHE	A	113	-33.640	45.630	100.900	1.00	57.25	O
ATOM	663	CB	PHE	A	113	-31.136	46.625	100.737	1.00	54.24	C
ATOM	664	CG	PHE	A	113	-29.684	47.023	100.625	1.00	58.84	C
ATOM	665	CD1	PHE	A	113	-28.674	46.090	100.823	1.00	59.23	C
ATOM	666	CD2	PHE	A	113	-29.326	48.334	100.319	1.00	66.37	C
ATOM	667	CE1	PHE	A	113	-27.327	46.461	100.722	1.00	55.58	C
ATOM	668	CE2	PHE	A	113	-27.981	48.710	100.214	1.00	63.98	C
ATOM	669	CZ	PHE	A	113	-26.983	47.770	100.415	1.00	57.08	C
ATOM	670	N	PRO	A	114	-33.669	44.582	98.906	1.00	50.78	N
ATOM	671	CA	PRO	A	114	-35.027	44.021	98.887	1.00	48.50	C
ATOM	672	C	PRO	A	114	-35.381	43.128	100.057	1.00	47.73	C
ATOM	673	O	PRO	A	114	-36.490	43.204	100.600	1.00	46.16	O
ATOM	674	CB	PRO	A	114	-35.054	43.253	97.581	1.00	50.90	C
ATOM	675	CG	PRO	A	114	-33.655	42.742	97.506	1.00	45.72	C
ATOM	676	CD	PRO	A	114	-32.867	43.985	97.826	1.00	47.08	C
ATOM	677	N	HIS	A	115	-34.445	42.265	100.431	1.00	44.63	N
ATOM	678	CA	HIS	A	115	-34.681	41.365	101.545	1.00	53.14	C
ATOM	679	C	HIS	A	115	-34.580	42.076	102.892	1.00	58.55	C
ATOM	680	O	HIS	A	115	-35.210	41.658	103.854	1.00	65.19	O
ATOM	681	CB	HIS	A	115	-33.699	40.204	101.489	1.00	47.76	C
ATOM	682	CG	HIS	A	115	-33.849	39.356	100.268	1.00	46.31	C
ATOM	683	ND1	HIS	A	115	-35.061	38.833	99.874	1.00	57.77	N
ATOM	684	CD2	HIS	A	115	-32.941	38.931	99.359	1.00	42.56	C
ATOM	685	CE1	HIS	A	115	-34.894	38.123	98.773	1.00	58.00	C
ATOM	686	NE2	HIS	A	115	-33.617	38.166	98.440	1.00	53.03	N
ATOM	687	N	GLY	A	116	-33.794	43.149	102.954	1.00	55.93	N
ATOM	688	CA	GLY	A	116	-33.649	43.897	104.193	1.00	49.77	C
ATOM	689	C	GLY	A	116	-32.440	43.536	105.028	1.00	42.46	C
ATOM	690	O	GLY	A	116	-31.990	42.392	105.052	1.00	41.59	O
ATOM	691	N	ILE	A	117	-31.916	44.529	105.734	1.00	38.38	N
ATOM	692	CA	ILE	A	117	-30.746	44.318	106.580	1.00	30.95	C
ATOM	693	C	ILE	A	117	-30.837	43.057	107.412	1.00	35.65	C
ATOM	694	O	ILE	A	117	-30.069	42.125	107.194	1.00	40.26	O
ATOM	695	CB	ILE	A	117	-30.531	45.455	107.565	1.00	26.18	C
ATOM	696	CG1	ILE	A	117	-30.420	46.783	106.810	1.00	19.83	C
ATOM	697	CG2	ILE	A	117	-29.275	45.190	108.344	1.00	16.45	C
ATOM	698	CD1	ILE	A	117	-29.218	46.863	105.923	1.00	3.31	C
ATOM	699	N	ARG	A	118	-31.761	43.038	108.375	1.00	39.17	N
ATOM	700	CA	ARG	A	118	-31.912	41.872	109.239	1.00	49.23	C
ATOM	701	C	ARG	A	118	-31.394	40.643	108.531	1.00	53.14	C
ATOM	702	O	ARG	A	118	-30.312	40.155	108.835	1.00	56.73	O

ATOM	703	CB	ARG	A	118	-33.369	41.626	109.601	1.00	56.41	C
ATOM	704	CG	ARG	A	118	-33.605	40.231	110.201	1.00	62.55	C
ATOM	705	CD	ARG	A	118	-35.066	39.819	110.216	1.00	64.78	C
ATOM	706	NE	ARG	A	118	-35.876	40.751	110.985	1.00	78.48	N
ATOM	707	CZ	ARG	A	118	-36.212	41.971	110.575	1.00	83.25	C
ATOM	708	NH1	ARG	A	118	-35.816	42.420	109.389	1.00	85.88	N
ATOM	709	NH2	ARG	A	118	-36.932	42.754	111.363	1.00	85.50	N
ATOM	710	N	GLN	A	119	-32.169	40.161	107.568	1.00	51.32	N
ATOM	711	CA	GLN	A	119	-31.766	38.977	106.843	1.00	49.87	C
ATOM	712	C	GLN	A	119	-30.331	39.021	106.368	1.00	46.58	C
ATOM	713	O	GLN	A	119	-29.608	38.035	106.468	1.00	53.92	O
ATOM	714	CB	GLN	A	119	-32.705	38.706	105.681	1.00	53.02	C
ATOM	715	CG	GLN	A	119	-33.884	37.847	106.104	1.00	62.39	C
ATOM	716	CD	GLN	A	119	-34.912	37.680	105.014	1.00	65.61	C
ATOM	717	OE1	GLN	A	119	-34.610	37.145	103.961	1.00	72.73	O
ATOM	718	NE2	GLN	A	119	-36.132	38.136	105.259	1.00	65.96	N
ATOM	719	N	LEU	A	120	-29.904	40.171	105.877	1.00	38.64	N
ATOM	720	CA	LEU	A	120	-28.531	40.306	105.432	1.00	27.87	C
ATOM	721	C	LEU	A	120	-27.623	39.860	106.580	1.00	23.13	C
ATOM	722	O	LEU	A	120	-26.772	38.972	106.436	1.00	19.96	O
ATOM	723	CB	LEU	A	120	-28.235	41.764	105.072	1.00	24.63	C
ATOM	724	CG	LEU	A	120	-26.786	42.073	104.710	1.00	17.89	C
ATOM	725	CD1	LEU	A	120	-26.377	41.287	103.496	1.00	3.31	C
ATOM	726	CD2	LEU	A	120	-26.643	43.548	104.450	1.00	28.71	C
ATOM	727	N	ALA	A	121	-27.845	40.493	107.729	1.00	20.79	N
ATOM	728	CA	ALA	A	121	-27.092	40.223	108.943	1.00	30.72	C
ATOM	729	C	ALA	A	121	-27.011	38.730	109.224	1.00	38.03	C
ATOM	730	O	ALA	A	121	-25.931	38.190	109.460	1.00	42.89	O
ATOM	731	CB	ALA	A	121	-27.733	40.945	110.134	1.00	31.00	C
ATOM	732	N	ASN	A	122	-28.157	38.065	109.190	1.00	40.73	N
ATOM	733	CA	ASN	A	122	-28.207	36.645	109.466	1.00	46.05	C
ATOM	734	C	ASN	A	122	-27.291	35.856	108.567	1.00	45.38	C
ATOM	735	O	ASN	A	122	-26.713	34.868	109.003	1.00	47.50	O
ATOM	736	CB	ASN	A	122	-29.623	36.127	109.319	1.00	56.34	C
ATOM	737	CG	ASN	A	122	-30.617	36.961	110.080	1.00	64.60	C
ATOM	738	OD1	ASN	A	122	-30.363	37.361	111.216	1.00	61.74	O
ATOM	739	ND2	ASN	A	122	-31.762	37.231	109.465	1.00	79.71	N
ATOM	740	N	TYR	A	123	-27.154	36.272	107.312	1.00	40.88	N
ATOM	741	CA	TYR	A	123	-26.253	35.562	106.413	1.00	45.83	C
ATOM	742	C	TYR	A	123	-24.857	35.830	106.936	1.00	41.18	C
ATOM	743	O	TYR	A	123	-24.065	34.911	107.163	1.00	40.91	O
ATOM	744	CB	TYR	A	123	-26.376	36.080	104.975	1.00	54.03	C
ATOM	745	CG	TYR	A	123	-25.406	35.376	104.037	1.00	62.59	C
ATOM	746	CD1	TYR	A	123	-25.562	34.018	103.722	1.00	75.25	C
ATOM	747	CD2	TYR	A	123	-24.288	36.039	103.535	1.00	55.30	C
ATOM	748	CE1	TYR	A	123	-24.627	33.349	102.943	1.00	76.30	C
ATOM	749	CE2	TYR	A	123	-23.352	35.380	102.762	1.00	58.81	C
ATOM	750	CZ	TYR	A	123	-23.520	34.034	102.468	1.00	71.09	C
ATOM	751	OH	TYR	A	123	-22.567	33.369	101.722	1.00	67.72	O
ATOM	752	N	VAL	A	124	-24.579	37.113	107.131	1.00	36.55	N
ATOM	753	CA	VAL	A	124	-23.293	37.555	107.648	1.00	30.58	C
ATOM	754	C	VAL	A	124	-22.923	36.752	108.906	1.00	26.95	C
ATOM	755	O	VAL	A	124	-21.779	36.317	109.063	1.00	21.59	O
ATOM	756	CB	VAL	A	124	-23.350	39.040	108.005	1.00	35.31	C
ATOM	757	CG1	VAL	A	124	-21.955	39.563	108.313	1.00	38.27	C
ATOM	758	CG2	VAL	A	124	-23.983	39.806	106.867	1.00	32.66	C
ATOM	759	N	HIS	A	125	-23.888	36.571	109.801	1.00	25.84	N
ATOM	760	CA	HIS	A	125	-23.632	35.807	111.001	1.00	27.43	C
ATOM	761	C	HIS	A	125	-23.486	34.325	110.638	1.00	25.94	C
ATOM	762	O	HIS	A	125	-22.593	33.642	111.128	1.00	20.70	O
ATOM	763	CB	HIS	A	125	-24.766	35.988	112.012	1.00	42.27	C
ATOM	764	CG	HIS	A	125	-24.966	37.401	112.466	1.00	51.98	C
ATOM	765	ND1	HIS	A	125	-23.963	38.142	113.049	1.00	54.13	N
ATOM	766	CD2	HIS	A	125	-26.061	38.200	112.437	1.00	51.03	C
ATOM	767	CE1	HIS	A	125	-24.431	39.337	113.358	1.00	49.04	C
ATOM	768	NE2	HIS	A	125	-25.700	39.398	112.997	1.00	47.54	N
ATOM	769	N	SER	A	126	-24.366	33.839	109.768	1.00	23.94	N
ATOM	770	CA	SER	A	126	-24.323	32.450	109.332	1.00	26.69	C
ATOM	771	C	SER	A	126	-22.912	32.160	108.886	1.00	28.55	C
ATOM	772	O	SER	A	126	-22.385	31.083	109.131	1.00	30.63	O
ATOM	773	CB	SER	A	126	-25.382	32.193	108.258	1.00	20.10	C
ATOM	774	OG	SER	A	126	-25.398	30.829	107.874	1.00	25.00	O
ATOM	775	N	LYS	A	127	-22.298	33.135	108.230	1.00	31.85	N
ATOM	776	CA	LYS	A	127	-20.927	32.984	107.755	1.00	36.73	C
ATOM	777	C	LYS	A	127	-19.890	33.326	108.835	1.00	36.08	C
ATOM	778	O	LYS	A	127	-18.692	33.452	108.541	1.00	39.60	O
ATOM	779	CB	LYS	A	127	-20.691	33.852	106.514	1.00	33.46	C
ATOM	780	CG	LYS	A	127	-21.583	33.489	105.342	1.00	47.96	C
ATOM	781	CD	LYS	A	127	-20.805	32.820	104.228	1.00	46.23	C

ATOM	782	CE	LYS	A	127	-20.139	31.546	104.698	1.00	50.82	C
ATOM	783	NZ	LYS	A	127	-19.322	30.992	103.587	1.00	57.29	N
ATOM	784	N	GLY	A	128	-20.359	33.497	110.070	1.00	34.48	N
ATOM	785	CA	GLY	A	128	-19.480	33.774	111.194	1.00	34.06	C
ATOM	786	C	GLY	A	128	-18.976	35.191	111.378	1.00	36.68	C
ATOM	787	O	GLY	A	128	-18.224	35.480	112.319	1.00	35.44	O
ATOM	788	N	LEU	A	129	-19.396	36.090	110.503	1.00	36.41	N
ATOM	789	CA	LEU	A	129	-18.947	37.469	110.591	1.00	33.42	C
ATOM	790	C	LEU	A	129	-19.921	38.376	111.318	1.00	37.65	C
ATOM	791	O	LEU	A	129	-21.029	37.970	111.673	1.00	43.74	O
ATOM	792	CB	LEU	A	129	-18.701	37.997	109.190	1.00	28.00	C
ATOM	793	CG	LEU	A	129	-17.828	37.000	108.435	1.00	37.07	C
ATOM	794	CD1	LEU	A	129	-17.820	37.326	106.945	1.00	36.47	C
ATOM	795	CD2	LEU	A	129	-16.428	37.012	109.048	1.00	31.18	C
ATOM	796	N	LYS	A	130	-19.494	39.612	111.534	1.00	38.98	N
ATOM	797	CA	LYS	A	130	-20.324	40.596	112.200	1.00	38.49	C
ATOM	798	C	LYS	A	130	-20.555	41.755	111.232	1.00	37.28	C
ATOM	799	O	LYS	A	130	-19.642	42.191	110.530	1.00	33.90	O
ATOM	800	CB	LYS	A	130	-19.641	41.058	113.489	1.00	39.52	C
ATOM	801	CG	LYS	A	130	-19.202	39.878	114.370	1.00	50.59	C
ATOM	802	CD	LYS	A	130	-19.089	40.247	115.858	1.00	60.93	C
ATOM	803	CE	LYS	A	130	-18.735	39.035	116.736	1.00	65.02	C
ATOM	804	NZ	LYS	A	130	-19.726	37.920	116.647	1.00	72.58	N
ATOM	805	N	LEU	A	131	-21.790	42.237	111.184	1.00	38.70	N
ATOM	806	CA	LEU	A	131	-22.164	43.331	110.289	1.00	34.94	C
ATOM	807	C	LEU	A	131	-22.144	44.712	110.935	1.00	33.78	C
ATOM	808	O	LEU	A	131	-22.399	44.868	112.136	1.00	41.70	O
ATOM	809	CB	LEU	A	131	-23.559	43.087	109.715	1.00	37.94	C
ATOM	810	CG	LEU	A	131	-24.239	44.327	109.135	1.00	37.70	C
ATOM	811	CD1	LEU	A	131	-23.559	44.723	107.839	1.00	44.11	C
ATOM	812	CD2	LEU	A	131	-25.718	44.042	108.905	1.00	49.63	C
ATOM	813	N	GLY	A	132	-21.861	45.718	110.116	1.00	23.79	N
ATOM	814	CA	GLY	A	132	-21.821	47.086	110.599	1.00	25.48	C
ATOM	815	C	GLY	A	132	-22.558	48.004	109.644	1.00	24.70	C
ATOM	816	O	GLY	A	132	-22.493	47.836	108.419	1.00	24.30	O
ATOM	817	N	ILE	A	133	-23.252	48.989	110.198	1.00	26.81	N
ATOM	818	CA	ILE	A	133	-24.004	49.914	109.373	1.00	27.58	C
ATOM	819	C	ILE	A	133	-23.593	51.364	109.633	1.00	22.90	C
ATOM	820	O	ILE	A	133	-23.066	51.706	110.695	1.00	19.27	O
ATOM	821	CB	ILE	A	133	-25.498	49.749	109.632	1.00	27.23	C
ATOM	822	CG1	ILE	A	133	-26.298	50.513	108.584	1.00	33.19	C
ATOM	823	CG2	ILE	A	133	-25.817	50.200	111.044	1.00	35.16	C
ATOM	824	CD1	ILE	A	133	-26.139	49.956	107.205	1.00	36.23	C
ATOM	825	N	TYR	A	134	-23.850	52.207	108.641	1.00	28.15	N
ATOM	826	CA	TYR	A	134	-23.514	53.619	108.697	1.00	32.08	C
ATOM	827	C	TYR	A	134	-24.745	54.437	109.061	1.00	31.58	C
ATOM	828	O	TYR	A	134	-25.849	54.081	108.676	1.00	31.09	O
ATOM	829	CB	TYR	A	134	-22.971	54.035	107.326	1.00	42.18	C
ATOM	830	CG	TYR	A	134	-22.758	55.517	107.114	1.00	42.79	C
ATOM	831	CD1	TYR	A	134	-21.473	56.048	106.963	1.00	51.16	C
ATOM	832	CD2	TYR	A	134	-23.843	56.383	107.026	1.00	49.28	C
ATOM	833	CE1	TYR	A	134	-21.281	57.405	106.725	1.00	55.37	C
ATOM	834	CE2	TYR	A	134	-23.663	57.735	106.791	1.00	53.57	C
ATOM	835	CZ	TYR	A	134	-22.383	58.238	106.640	1.00	53.18	C
ATOM	836	OH	TYR	A	134	-22.224	59.576	106.398	1.00	60.11	O
ATOM	837	N	ALA	A	135	-24.552	55.530	109.798	1.00	31.65	N
ATOM	838	CA	ALA	A	135	-25.657	56.405	110.200	1.00	34.85	C
ATOM	839	C	ALA	A	135	-25.128	57.806	110.372	1.00	35.25	C
ATOM	840	O	ALA	A	135	-23.920	58.004	110.371	1.00	35.80	O
ATOM	841	CB	ALA	A	135	-26.265	55.926	111.507	1.00	30.46	C
ATOM	842	N	ASP	A	136	-26.017	58.781	110.524	1.00	29.23	N
ATOM	843	CA	ASP	A	136	-25.558	60.154	110.717	1.00	28.02	C
ATOM	844	C	ASP	A	136	-26.319	60.894	111.805	1.00	25.33	C
ATOM	845	O	ASP	A	136	-27.544	60.892	111.848	1.00	28.97	O
ATOM	846	CB	ASP	A	136	-25.629	60.967	109.416	1.00	30.58	C
ATOM	847	CG	ASP	A	136	-24.689	62.175	109.435	1.00	31.24	C
ATOM	848	OD1	ASP	A	136	-24.857	63.060	110.301	1.00	3.31	O
ATOM	849	OD2	ASP	A	136	-23.771	62.230	108.588	1.00	35.23	O
ATOM	850	N	VAL	A	137	-25.559	61.542	112.670	1.00	24.06	N
ATOM	851	CA	VAL	A	137	-26.111	62.284	113.782	1.00	29.17	C
ATOM	852	C	VAL	A	137	-27.011	63.444	113.405	1.00	27.79	C
ATOM	853	O	VAL	A	137	-27.982	63.730	114.108	1.00	18.72	O
ATOM	854	CB	VAL	A	137	-24.993	62.863	114.683	1.00	29.13	C
ATOM	855	CG1	VAL	A	137	-24.305	64.015	113.946	1.00	37.05	C
ATOM	856	CG2	VAL	A	137	-25.569	63.343	115.990	1.00	28.08	C
ATOM	857	N	GLY	A	138	-26.678	64.120	112.315	1.00	33.18	N
ATOM	858	CA	GLY	A	138	-27.453	65.273	111.911	1.00	46.02	C
ATOM	859	C	GLY	A	138	-28.739	65.033	111.159	1.00	51.07	C
ATOM	860	O	GLY	A	138	-29.370	63.984	111.297	1.00	56.77	O

ATOM	861	N	ASN	A	139	-29.112	66.019	110.348	1.00	53.59	N
ATOM	862	CA	ASN	A	139	-30.332	65.951	109.563	1.00	50.34	C
ATOM	863	C	ASN	A	139	-30.175	65.110	108.258	1.00	41.50	C
ATOM	864	O	ASN	A	139	-31.166	64.798	107.598	1.00	34.93	O
ATOM	865	CB	ASN	A	139	-30.839	67.393	109.281	1.00	62.95	C
ATOM	866	CG	ASN	A	139	-31.173	68.176	110.578	1.00	71.51	C
ATOM	867	OD1	ASN	A	139	-31.352	67.553	111.627	1.00	71.83	O
ATOM	868	ND2	ASN	A	139	-31.259	69.515	110.510	1.00	81.75	N
ATOM	869	N	LYS	A	140	-28.945	64.726	107.907	1.00	37.35	N
ATOM	870	CA	LYS	A	140	-28.668	63.896	106.717	1.00	35.87	C
ATOM	871	C	LYS	A	140	-27.304	63.215	106.831	1.00	38.24	C
ATOM	872	O	LYS	A	140	-26.441	63.662	107.586	1.00	44.31	O
ATOM	873	CB	LYS	A	140	-28.640	64.718	105.433	1.00	29.88	C
ATOM	874	CG	LYS	A	140	-29.974	64.985	104.795	1.00	40.49	C
ATOM	875	CD	LYS	A	140	-29.785	65.887	103.584	1.00	62.52	C
ATOM	876	CE	LYS	A	140	-31.122	66.383	103.054	1.00	70.29	C
ATOM	877	NZ	LYS	A	140	-30.972	67.444	102.015	1.00	70.68	N
ATOM	878	N	THR	A	141	-27.115	62.128	106.085	1.00	37.15	N
ATOM	879	CA	THR	A	141	-25.838	61.422	106.076	1.00	35.50	C
ATOM	880	C	THR	A	141	-25.039	62.284	105.118	1.00	36.92	C
ATOM	881	O	THR	A	141	-25.639	63.087	104.405	1.00	42.58	O
ATOM	882	CB	THR	A	141	-25.975	60.033	105.472	1.00	32.93	C
ATOM	883	OG1	THR	A	141	-26.291	60.149	104.084	1.00	29.61	O
ATOM	884	CG2	THR	A	141	-27.092	59.270	106.139	1.00	39.81	C
ATOM	885	N	CYS	A	142	-23.714	62.164	105.077	1.00	38.49	N
ATOM	886	CA	CYS	A	142	-22.977	63.007	104.136	1.00	44.01	C
ATOM	887	C	CYS	A	142	-23.473	62.742	102.724	1.00	44.89	C
ATOM	888	O	CYS	A	142	-23.156	63.486	101.806	1.00	50.35	O
ATOM	889	CB	CYS	A	142	-21.459	62.773	104.205	1.00	51.38	C
ATOM	890	SG	CYS	A	142	-20.666	63.238	105.784	1.00	72.02	S
ATOM	891	N	ALA	A	143	-24.270	61.691	102.566	1.00	45.64	N
ATOM	892	CA	ALA	A	143	-24.804	61.329	101.263	1.00	52.01	C
ATOM	893	C	ALA	A	143	-26.059	62.115	100.901	1.00	59.39	C
ATOM	894	O	ALA	A	143	-26.345	62.316	99.726	1.00	63.73	O
ATOM	895	CB	ALA	A	143	-25.106	59.850	101.220	1.00	54.75	C
ATOM	896	N	GLY	A	144	-26.806	62.558	101.905	1.00	63.40	N
ATOM	897	CA	GLY	A	144	-28.025	63.303	101.642	1.00	68.16	C
ATOM	898	C	GLY	A	144	-29.212	62.498	102.121	1.00	67.45	C
ATOM	899	O	GLY	A	144	-30.330	62.996	102.269	1.00	73.47	O
ATOM	900	N	PHE	A	145	-28.963	61.225	102.373	1.00	61.79	N
ATOM	901	CA	PHE	A	145	-30.022	60.351	102.843	1.00	57.87	C
ATOM	902	C	PHE	A	145	-30.378	60.634	104.292	1.00	54.82	C
ATOM	903	O	PHE	A	145	-29.678	61.390	104.967	1.00	52.34	O
ATOM	904	CB	PHE	A	145	-29.584	58.898	102.698	1.00	56.96	C
ATOM	905	CG	PHE	A	145	-29.472	58.447	101.282	1.00	58.46	C
ATOM	906	CD1	PHE	A	145	-30.591	58.397	100.479	1.00	63.62	C
ATOM	907	CD2	PHE	A	145	-28.246	58.096	100.744	1.00	56.83	C
ATOM	908	CE1	PHE	A	145	-30.500	58.028	99.150	1.00	71.78	C
ATOM	909	CE2	PHE	A	145	-28.141	57.727	99.423	1.00	62.21	C
ATOM	910	CZ	PHE	A	145	-29.271	57.684	98.618	1.00	69.70	C
ATOM	911	N	PRO	A	146	-31.477	60.038	104.777	1.00	56.74	N
ATOM	912	CA	PRO	A	146	-31.988	60.176	106.139	1.00	60.73	C
ATOM	913	C	PRO	A	146	-30.920	60.463	107.166	1.00	59.16	C
ATOM	914	O	PRO	A	146	-29.834	59.916	107.090	1.00	67.99	O
ATOM	915	CB	PRO	A	146	-32.670	58.843	106.361	1.00	65.25	C
ATOM	916	CG	PRO	A	146	-33.358	58.661	105.042	1.00	70.30	C
ATOM	917	CD	PRO	A	146	-32.298	59.078	104.015	1.00	60.08	C
ATOM	918	N	GLY	A	147	-31.254	61.312	108.130	1.00	54.04	N
ATOM	919	CA	GLY	A	147	-30.312	61.666	109.168	1.00	49.65	C
ATOM	920	C	GLY	A	147	-30.484	60.721	110.331	1.00	46.61	C
ATOM	921	O	GLY	A	147	-30.271	59.522	110.187	1.00	50.36	O
ATOM	922	N	SER	A	148	-30.897	61.259	111.471	1.00	43.80	N
ATOM	923	CA	SER	A	148	-31.109	60.474	112.677	1.00	48.24	C
ATOM	924	C	SER	A	148	-31.480	61.423	113.800	1.00	54.21	C
ATOM	925	O	SER	A	148	-31.791	61.006	114.918	1.00	55.54	O
ATOM	926	CB	SER	A	148	-29.846	59.702	113.062	1.00	42.87	C
ATOM	927	OG	SER	A	148	-29.742	58.485	112.350	1.00	45.45	C
ATOM	928	N	PHE	A	149	-31.434	62.711	113.484	1.00	60.50	N
ATOM	929	CA	PHE	A	149	-31.753	63.755	114.438	1.00	61.79	C
ATOM	930	C	PHE	A	149	-33.112	63.496	115.045	1.00	64.22	C
ATOM	931	O	PHE	A	149	-34.107	63.413	114.329	1.00	64.91	O
ATOM	932	CB	PHE	A	149	-31.753	65.112	113.741	1.00	65.43	C
ATOM	933	CG	PHE	A	149	-31.915	66.262	114.675	1.00	67.92	C
ATOM	934	CD1	PHE	A	149	-31.151	66.330	115.829	1.00	65.58	C
ATOM	935	CD2	PHE	A	149	-32.825	67.275	114.405	1.00	76.80	C
ATOM	936	CE1	PHE	A	149	-31.280	67.393	116.705	1.00	75.12	C
ATOM	937	CE2	PHE	A	149	-32.968	68.350	115.274	1.00	83.75	C
ATOM	938	CZ	PHE	A	149	-32.193	68.408	116.432	1.00	83.27	C
ATOM	939	N	GLY	A	150	-33.157	63.376	116.365	1.00	67.83	N



ATOM	940	CA	GLY	A	150	-34.424	63.125	117.020	1.00	74.79	C
ATOM	941	C	GLY	A	150	-35.020	61.806	116.581	1.00	76.82	C
ATOM	942	O	GLY	A	150	-36.199	61.723	116.244	1.00	87.25	O
ATOM	943	N	TYR	A	151	-34.190	60.773	116.562	1.00	71.76	N
ATOM	944	CA	TYR	A	151	-34.624	59.440	116.160	1.00	66.00	C
ATOM	945	C	TYR	A	151	-33.688	58.441	116.817	1.00	61.26	C
ATOM	946	O	TYR	A	151	-33.960	57.240	116.851	1.00	56.60	O
ATOM	947	CB	TYR	A	151	-34.529	59.276	114.639	1.00	73.54	C
ATOM	948	CG	TYR	A	151	-35.575	60.019	113.820	1.00	76.28	C
ATOM	949	CD1	TYR	A	151	-36.916	59.617	113.809	1.00	82.28	C
ATOM	950	CD2	TYR	A	151	-35.210	61.093	113.011	1.00	79.60	C
ATOM	951	CE1	TYR	A	151	-37.857	60.265	113.007	1.00	84.58	C
ATOM	952	CE2	TYR	A	151	-36.142	61.744	112.209	1.00	86.91	C
ATOM	953	CZ	TYR	A	151	-37.458	61.326	112.210	1.00	85.18	C
ATOM	954	OH	TYR	A	151	-38.361	61.967	111.399	1.00	84.45	O
ATOM	955	N	TYR	A	152	-32.577	58.960	117.332	1.00	57.27	N
ATOM	956	CA	TYR	A	152	-31.556	58.150	117.980	1.00	56.78	C
ATOM	957	C	TYR	A	152	-32.129	56.895	118.610	1.00	56.79	C
ATOM	958	O	TYR	A	152	-31.900	55.787	118.122	1.00	59.65	O
ATOM	959	CB	TYR	A	152	-30.833	58.977	119.038	1.00	57.11	C
ATOM	960	CG	TYR	A	152	-30.262	60.266	118.493	1.00	51.41	C
ATOM	961	CD1	TYR	A	152	-29.449	60.272	117.356	1.00	45.75	C
ATOM	962	CD2	TYR	A	152	-30.543	61.483	119.106	1.00	52.15	C
ATOM	963	CE1	TYR	A	152	-28.934	61.459	116.844	1.00	40.47	C
ATOM	964	CE2	TYR	A	152	-30.030	62.680	118.602	1.00	50.45	C
ATOM	965	CZ	TYR	A	152	-29.228	62.661	117.472	1.00	41.43	C
ATOM	966	OH	TYR	A	152	-28.723	63.839	116.972	1.00	33.76	O
ATOM	967	N	ASP	A	153	-32.879	57.068	119.692	1.00	53.39	N
ATOM	968	CA	ASP	A	153	-33.479	55.931	120.369	1.00	59.36	C
ATOM	969	C	ASP	A	153	-34.119	54.968	119.363	1.00	61.05	C
ATOM	970	O	ASP	A	153	-33.724	53.806	119.279	1.00	69.33	O
ATOM	971	CB	ASP	A	153	-34.519	56.409	121.383	1.00	61.10	C
ATOM	972	CG	ASP	A	153	-33.905	57.192	122.522	1.00	66.61	C
ATOM	973	OD1	ASP	A	153	-32.967	56.666	123.159	1.00	74.47	O
ATOM	974	OD2	ASP	A	153	-34.368	58.324	122.785	1.00	67.84	O
ATOM	975	N	ILE	A	154	-35.089	55.446	118.590	1.00	58.54	N
ATOM	976	CA	ILE	A	154	-35.744	54.590	117.603	1.00	56.48	C
ATOM	977	C	ILE	A	154	-34.714	53.813	116.799	1.00	53.07	C
ATOM	978	O	ILE	A	154	-34.649	52.584	116.868	1.00	55.38	O
ATOM	979	CB	ILE	A	154	-36.582	55.402	116.607	1.00	60.62	C
ATOM	980	CG1	ILE	A	154	-37.745	56.075	117.331	1.00	60.11	C
ATOM	981	CG2	ILE	A	154	-37.103	54.491	115.510	1.00	58.52	C
ATOM	982	CD1	ILE	A	154	-38.627	56.910	116.424	1.00	68.47	C
ATOM	983	N	ASP	A	155	-33.915	54.548	116.034	1.00	49.17	N
ATOM	984	CA	ASP	A	155	-32.881	53.949	115.207	1.00	48.75	C
ATOM	985	C	ASP	A	155	-32.097	52.895	115.975	1.00	46.33	C
ATOM	986	O	ASP	A	155	-31.971	51.757	115.531	1.00	47.70	O
ATOM	987	CB	ASP	A	155	-31.941	55.038	114.687	1.00	56.70	C
ATOM	988	CG	ASP	A	155	-32.637	55.999	113.730	1.00	65.61	C
ATOM	989	OD1	ASP	A	155	-31.990	56.962	113.255	1.00	66.95	O
ATOM	990	OD2	ASP	A	155	-33.837	55.786	113.447	1.00	76.23	O
ATOM	991	N	ALA	A	156	-31.575	53.271	117.133	1.00	43.12	N
ATOM	992	CA	ALA	A	156	-30.819	52.323	117.934	1.00	51.16	C
ATOM	993	C	ALA	A	156	-31.570	50.994	118.019	1.00	57.39	C
ATOM	994	O	ALA	A	156	-31.122	49.981	117.488	1.00	54.91	O
ATOM	995	CB	ALA	A	156	-30.580	52.890	119.330	1.00	54.88	C
ATOM	996	N	GLN	A	157	-32.723	51.004	118.676	1.00	62.27	N
ATOM	997	CA	GLN	A	157	-33.515	49.791	118.815	1.00	62.11	C
ATOM	998	C	GLN	A	157	-33.610	49.115	117.454	1.00	58.35	C
ATOM	999	O	GLN	A	157	-33.424	47.901	117.336	1.00	55.24	O
ATOM	1000	CB	GLN	A	157	-34.918	50.122	119.333	1.00	66.46	C
ATOM	1001	CG	GLN	A	157	-35.418	49.129	120.344	1.00	68.51	C
ATOM	1002	CD	GLN	A	157	-34.542	49.106	121.575	1.00	73.20	C
ATOM	1003	OE1	GLN	A	157	-34.440	50.103	122.291	1.00	72.76	O
ATOM	1004	NE2	GLN	A	157	-33.893	47.971	121.825	1.00	73.79	N
ATOM	1005	N	THR	A	158	-33.895	49.907	116.425	1.00	55.78	N
ATOM	1006	CA	THR	A	158	-34.001	49.375	115.076	1.00	57.61	C
ATOM	1007	C	THR	A	158	-32.802	48.459	114.822	1.00	59.20	C
ATOM	1008	O	THR	A	158	-32.946	47.236	114.805	1.00	59.18	O
ATOM	1009	CB	THR	A	158	-34.012	50.508	114.017	1.00	59.39	C
ATOM	1010	OG1	THR	A	158	-35.156	51.348	114.216	1.00	58.60	O
ATOM	1011	CG2	THR	A	158	-34.061	49.927	112.619	1.00	59.01	C
ATOM	1012	N	PHE	A	159	-31.621	49.056	114.651	1.00	58.19	N
ATOM	1013	CA	PHE	A	159	-30.387	48.299	114.398	1.00	52.96	C
ATOM	1014	C	PHE	A	159	-30.257	47.139	115.368	1.00	51.83	C
ATOM	1015	O	PHE	A	159	-30.010	45.998	114.966	1.00	52.13	O
ATOM	1016	CB	PHE	A	159	-29.148	49.174	114.588	1.00	39.41	C
ATOM	1017	CG	PHE	A	159	-29.164	50.447	113.803	1.00	33.46	C
ATOM	1018	CD1	PHE	A	159	-29.153	50.425	112.414	1.00	40.11	C

ATOM	1019	CD2	PHE	A	159	-29.158	51.677	114.456	1.00	27.14	C
ATOM	1020	CE1	PHE	A	159	-29.131	51.608	111.687	1.00	39.56	C
ATOM	1021	CE2	PHE	A	159	-29.136	52.861	113.744	1.00	26.61	C
ATOM	1022	CZ	PHE	A	159	-29.122	52.829	112.353	1.00	29.93	C
ATOM	1023	N	ALA	A	160	-30.396	47.457	116.651	1.00	46.49	N
ATOM	1024	CA	ALA	A	160	-30.293	46.467	117.705	1.00	51.93	C
ATOM	1025	C	ALA	A	160	-31.140	45.256	117.363	1.00	53.81	C
ATOM	1026	O	ALA	A	160	-30.736	44.121	117.612	1.00	57.70	O
ATOM	1027	CB	ALA	A	160	-30.743	47.071	119.021	1.00	56.28	C
ATOM	1028	N	ASP	A	161	-32.312	45.502	116.779	1.00	52.03	N
ATOM	1029	CA	ASP	A	161	-33.213	44.420	116.399	1.00	48.71	C
ATOM	1030	C	ASP	A	161	-32.813	43.799	115.066	1.00	46.99	C
ATOM	1031	O	ASP	A	161	-32.960	42.603	114.869	1.00	47.02	O
ATOM	1032	CB	ASP	A	161	-34.654	44.918	116.321	1.00	54.43	C
ATOM	1033	CG	ASP	A	161	-35.135	45.513	117.628	1.00	64.53	C
ATOM	1034	OD1	ASP	A	161	-34.756	44.987	118.695	1.00	66.37	O
ATOM	1035	OD2	ASP	A	161	-35.905	46.498	117.589	1.00	73.72	O
ATOM	1036	N	TRP	A	162	-32.305	44.615	114.151	1.00	42.60	N
ATOM	1037	CA	TRP	A	162	-31.864	44.130	112.848	1.00	47.02	C
ATOM	1038	C	TRP	A	162	-30.728	43.135	112.995	1.00	52.84	C
ATOM	1039	O	TRP	A	162	-30.453	42.347	112.079	1.00	58.41	O
ATOM	1040	CB	TRP	A	162	-31.391	45.296	111.996	1.00	45.23	C
ATOM	1041	CG	TRP	A	162	-32.495	46.058	111.387	1.00	52.02	C
ATOM	1042	CD1	TRP	A	162	-33.829	45.819	111.517	1.00	57.35	C
ATOM	1043	CD2	TRP	A	162	-32.365	47.164	110.506	1.00	55.31	C
ATOM	1044	NE1	TRP	A	162	-34.542	46.710	110.761	1.00	58.06	N
ATOM	1045	CE2	TRP	A	162	-33.666	47.549	110.127	1.00	54.33	C
ATOM	1046	CE3	TRP	A	162	-31.273	47.868	109.992	1.00	57.11	C
ATOM	1047	CZ2	TRP	A	162	-33.907	48.610	109.258	1.00	54.11	C
ATOM	1048	CZ3	TRP	A	162	-31.509	48.923	109.129	1.00	54.12	C
ATOM	1049	CH2	TRP	A	162	-32.819	49.284	108.769	1.00	56.13	C
ATOM	1050	N	GLY	A	163	-30.071	43.190	114.153	1.00	50.47	N
ATOM	1051	CA	GLY	A	163	-28.960	42.301	114.435	1.00	48.75	C
ATOM	1052	C	GLY	A	163	-27.611	42.895	114.074	1.00	48.13	C
ATOM	1053	O	GLY	A	163	-26.724	42.194	113.586	1.00	49.04	O
ATOM	1054	N	VAL	A	164	-27.452	44.188	114.321	1.00	46.12	N
ATOM	1055	CA	VAL	A	164	-26.203	44.862	114.015	1.00	39.85	C
ATOM	1056	C	VAL	A	164	-25.140	44.616	115.068	1.00	41.90	C
ATOM	1057	O	VAL	A	164	-25.442	44.341	116.231	1.00	48.62	O
ATOM	1058	CB	VAL	A	164	-26.404	46.364	113.896	1.00	32.22	C
ATOM	1059	CG1	VAL	A	164	-25.117	47.018	113.440	1.00	37.25	C
ATOM	1060	CG2	VAL	A	164	-27.540	46.650	112.934	1.00	23.64	C
ATOM	1061	N	ASP	A	165	-23.888	44.721	114.650	1.00	40.76	N
ATOM	1062	CA	ASP	A	165	-22.779	44.513	115.559	1.00	46.54	C
ATOM	1063	C	ASP	A	165	-21.925	45.765	115.675	1.00	47.34	C
ATOM	1064	O	ASP	A	165	-21.208	45.941	116.660	1.00	50.94	O
ATOM	1065	CB	ASP	A	165	-21.900	43.362	115.074	1.00	43.91	C
ATOM	1066	CG	ASP	A	165	-22.657	42.066	114.949	1.00	45.91	C
ATOM	1067	OD1	ASP	A	165	-23.265	41.617	115.956	1.00	49.23	O
ATOM	1068	OD2	ASP	A	165	-22.632	41.503	113.833	1.00	41.28	O
ATOM	1069	N	LEU	A	166	-21.995	46.638	114.678	1.00	41.70	N
ATOM	1070	CA	LEU	A	166	-21.184	47.849	114.708	1.00	34.79	C
ATOM	1071	C	LEU	A	166	-21.817	49.022	113.966	1.00	29.04	C
ATOM	1072	O	LEU	A	166	-22.388	48.849	112.883	1.00	18.18	O
ATOM	1073	CB	LEU	A	166	-19.803	47.541	114.120	1.00	34.97	C
ATOM	1074	CG	LEU	A	166	-18.748	48.640	113.932	1.00	28.60	C
ATOM	1075	CD1	LEU	A	166	-17.429	47.992	113.523	1.00	32.34	C
ATOM	1076	CD2	LEU	A	166	-19.198	49.642	112.875	1.00	34.11	C
ATOM	1077	N	LEU	A	167	-21.685	50.217	114.545	1.00	29.90	N
ATOM	1078	CA	LEU	A	167	-22.242	51.431	113.950	1.00	29.38	C
ATOM	1079	C	LEU	A	167	-21.230	52.536	113.652	1.00	30.39	C
ATOM	1080	O	LEU	A	167	-20.507	52.980	114.543	1.00	34.52	O
ATOM	1081	CB	LEU	A	167	-23.313	52.022	114.865	1.00	29.92	C
ATOM	1082	CG	LEU	A	167	-23.849	53.353	114.333	1.00	26.86	C
ATOM	1083	CD1	LEU	A	167	-24.617	53.072	113.056	1.00	23.49	C
ATOM	1084	CD2	LEU	A	167	-24.741	54.042	115.356	1.00	24.77	C
ATOM	1085	N	LYS	A	168	-21.185	52.985	112.404	1.00	31.63	N
ATOM	1086	CA	LYS	A	168	-20.294	54.083	112.055	1.00	33.02	C
ATOM	1087	C	LYS	A	168	-21.154	55.328	112.122	1.00	34.61	C
ATOM	1088	O	LYS	A	168	-21.947	55.583	111.216	1.00	37.40	O
ATOM	1089	CB	LYS	A	168	-19.733	53.936	110.631	1.00	36.20	C
ATOM	1090	CG	LYS	A	168	-18.885	55.153	110.176	1.00	36.63	C
ATOM	1091	CD	LYS	A	168	-18.140	54.939	108.840	1.00	32.72	C
ATOM	1092	CE	LYS	A	168	-17.230	56.127	108.494	1.00	17.31	C
ATOM	1093	NZ	LYS	A	168	-16.338	55.854	107.338	1.00	20.64	N
ATOM	1094	N	PHE	A	169	-21.019	56.097	113.193	1.00	34.82	N
ATOM	1095	CA	PHE	A	169	-21.830	57.292	113.320	1.00	43.12	C
ATOM	1096	C	PHE	A	169	-21.143	58.538	112.769	1.00	44.70	C
ATOM	1097	O	PHE	A	169	-20.330	59.169	113.444	1.00	46.72	O

ATOM	1098	CB	PHE	A	169	-22.227	57.498	114.780	1.00	53.78	C
ATOM	1099	CG	PHE	A	169	-23.554	58.160	114.946	1.00	66.20	C
ATOM	1100	CD1	PHE	A	169	-24.658	57.695	114.241	1.00	71.04	C
ATOM	1101	CD2	PHE	A	169	-23.704	59.248	115.793	1.00	69.28	C
ATOM	1102	CE1	PHE	A	169	-25.893	58.301	114.373	1.00	73.13	C
ATOM	1103	CE2	PHE	A	169	-24.938	59.864	115.936	1.00	74.53	C
ATOM	1104	CZ	PHE	A	169	-26.037	59.389	115.223	1.00	75.63	C
ATOM	1105	N	ASP	A	170	-21.493	58.886	111.534	1.00	43.70	N
ATOM	1106	CA	ASP	A	170	-20.942	60.050	110.834	1.00	43.57	C
ATOM	1107	C	ASP	A	170	-21.627	61.342	111.313	1.00	47.05	C
ATOM	1108	O	ASP	A	170	-22.725	61.298	111.863	1.00	58.65	O
ATOM	1109	CB	ASP	A	170	-21.158	59.870	109.327	1.00	42.08	C
ATOM	1110	CG	ASP	A	170	-20.438	60.894	108.510	1.00	47.03	C
ATOM	1111	OD1	ASP	A	170	-19.948	61.874	109.086	1.00	39.35	O
ATOM	1112	OD2	ASP	A	170	-20.365	60.724	107.282	1.00	60.53	O
ATOM	1113	N	GLY	A	171	-20.991	62.490	111.096	1.00	40.64	N
ATOM	1114	CA	GLY	A	171	-21.585	63.740	111.533	1.00	40.10	C
ATOM	1115	C	GLY	A	171	-21.687	64.883	110.535	1.00	41.45	C
ATOM	1116	O	GLY	A	171	-21.069	65.936	110.721	1.00	38.61	O
ATOM	1117	N	CYS	A	172	-22.461	64.686	109.474	1.00	45.62	N
ATOM	1118	CA	CYS	A	172	-22.662	65.740	108.485	1.00	57.26	C
ATOM	1119	C	CYS	A	172	-24.014	66.376	108.765	1.00	64.15	C
ATOM	1120	O	CYS	A	172	-24.971	65.671	109.085	1.00	68.98	O
ATOM	1121	CB	CYS	A	172	-22.685	65.170	107.064	1.00	63.70	C
ATOM	1122	SG	CYS	A	172	-21.108	65.199	106.143	1.00	78.74	S
ATOM	1123	N	TYR	A	173	-24.092	67.698	108.666	1.00	65.75	N
ATOM	1124	CA	TYR	A	173	-25.359	68.398	108.865	1.00	65.04	C
ATOM	1125	C	TYR	A	173	-25.910	68.529	110.289	1.00	70.36	C
ATOM	1126	O	TYR	A	173	-26.614	67.643	110.768	1.00	68.61	O
ATOM	1127	CB	TYR	A	173	-26.444	67.742	108.004	1.00	50.88	C
ATOM	1128	CG	TYR	A	173	-26.119	67.665	106.530	1.00	40.15	C
ATOM	1129	CD1	TYR	A	173	-25.907	68.822	105.783	1.00	44.16	C
ATOM	1130	CD2	TYR	A	173	-26.058	66.440	105.874	1.00	37.10	C
ATOM	1131	CE1	TYR	A	173	-25.645	68.764	104.416	1.00	35.52	C
ATOM	1132	CE2	TYR	A	173	-25.800	66.368	104.507	1.00	32.18	C
ATOM	1133	CZ	TYR	A	173	-25.593	67.535	103.778	1.00	30.22	C
ATOM	1134	OH	TYR	A	173	-25.336	67.471	102.418	1.00	19.17	O
ATOM	1135	N	CYS	A	174	-25.617	69.647	110.950	1.00	78.94	N
ATOM	1136	CA	CYS	A	174	-26.119	69.910	112.300	1.00	85.57	C
ATOM	1137	C	CYS	A	174	-25.742	71.318	112.742	1.00	94.32	C
ATOM	1138	O	CYS	A	174	-24.630	71.778	112.500	1.00	103.79	O
ATOM	1139	CB	CYS	A	174	-25.584	68.879	113.296	1.00	78.87	C
ATOM	1140	SG	CYS	A	174	-23.805	68.720	113.299	1.00	61.30	S
ATOM	1141	N	ASP	A	175	-26.684	71.995	113.390	1.00	97.67	N
ATOM	1142	CA	ASP	A	175	-26.490	73.365	113.850	1.00	103.74	C
ATOM	1143	C	ASP	A	175	-25.154	73.614	114.555	1.00	103.67	C
ATOM	1144	O	ASP	A	175	-24.156	73.933	113.914	1.00	101.24	O
ATOM	1145	CB	ASP	A	175	-27.653	73.783	114.769	1.00	117.72	C
ATOM	1146	CG	ASP	A	175	-28.943	74.107	114.002	1.00	125.68	C
ATOM	1147	OD1	ASP	A	175	-28.928	75.006	113.134	1.00	131.47	O
ATOM	1148	OD2	ASP	A	175	-29.982	73.472	114.280	1.00	135.80	O
ATOM	1149	N	SER	A	176	-25.135	73.481	115.875	1.00	105.67	N
ATOM	1150	CA	SER	A	176	-23.914	73.714	116.637	1.00	109.70	C
ATOM	1151	C	SER	A	176	-23.466	72.452	117.357	1.00	108.65	C
ATOM	1152	O	SER	A	176	-24.222	71.481	117.444	1.00	105.77	O
ATOM	1153	CB	SER	A	176	-24.140	74.827	117.660	1.00	116.59	C
ATOM	1154	OG	SER	A	176	-25.073	74.427	118.649	1.00	127.13	O
ATOM	1155	N	LEU	A	177	-22.236	72.466	117.870	1.00	109.10	N
ATOM	1156	CA	LEU	A	177	-21.706	71.315	118.594	1.00	113.27	C
ATOM	1157	C	LEU	A	177	-22.719	70.852	119.626	1.00	118.00	C
ATOM	1158	O	LEU	A	177	-22.741	69.685	120.002	1.00	119.05	O
ATOM	1159	CB	LEU	A	177	-20.395	71.664	119.289	1.00	108.56	C
ATOM	1160	CG	LEU	A	177	-19.213	72.035	118.388	1.00	108.26	C
ATOM	1161	CD1	LEU	A	177	-18.937	73.593	118.503	1.00	110.81	C
ATOM	1162	CD2	LEU	A	177	-17.984	71.146	118.755	1.00	113.74	C
ATOM	1163	N	GLU	A	178	-23.551	71.776	120.096	1.00	121.90	N
ATOM	1164	CA	GLU	A	178	-24.593	71.419	121.053	1.00	126.02	C
ATOM	1165	C	GLU	A	178	-25.284	70.201	120.449	1.00	120.33	C
ATOM	1166	O	GLU	A	178	-25.169	69.090	120.966	1.00	121.32	O
ATOM	1167	CB	GLU	A	178	-25.601	72.571	121.215	1.00	138.76	C
ATOM	1168	CG	GLU	A	178	-25.076	73.783	121.982	1.00	152.42	C
ATOM	1169	CD	GLU	A	178	-24.864	73.486	123.456	1.00	157.35	C
ATOM	1170	OE1	GLU	A	178	-25.854	73.135	124.136	1.00	157.22	O
ATOM	1171	OE2	GLU	A	178	-23.713	73.603	123.935	1.00	160.51	O
ATOM	1172	N	ASN	A	179	-25.968	70.409	119.328	1.00	110.14	N
ATOM	1173	CA	ASN	A	179	-26.658	69.318	118.657	1.00	100.76	C
ATOM	1174	C	ASN	A	179	-25.709	68.158	118.385	1.00	93.18	C
ATOM	1175	O	ASN	A	179	-26.093	66.997	118.519	1.00	92.47	O
ATOM	1176	CB	ASN	A	179	-27.270	69.811	117.352	1.00	104.39	C

ATOM	1177	CG	ASN	A	179	-28.245	70.946	117.569	1.00	102.16	C
ATOM	1178	OD1	ASN	A	179	-28.886	71.040	118.620	1.00	90.92	O
ATOM	1179	ND2	ASN	A	179	-28.381	71.806	116.567	1.00	106.80	N
ATOM	1180	N	LEU	A	180	-24.469	68.476	118.020	1.00	81.89	N
ATOM	1181	CA	LEU	A	180	-23.463	67.453	117.730	1.00	72.86	C
ATOM	1182	C	LEU	A	180	-23.087	66.647	118.976	1.00	69.25	C
ATOM	1183	O	LEU	A	180	-23.545	65.518	119.161	1.00	71.22	O
ATOM	1184	CB	LEU	A	180	-22.204	68.105	117.137	1.00	70.11	C
ATOM	1185	CG	LEU	A	180	-21.033	67.185	116.768	1.00	67.68	C
ATOM	1186	CD1	LEU	A	180	-21.462	66.225	115.671	1.00	76.29	C
ATOM	1187	CD2	LEU	A	180	-19.854	68.017	116.309	1.00	65.37	C
ATOM	1188	N	ALA	A	181	-22.245	67.233	119.820	1.00	64.43	N
ATOM	1189	CA	ALA	A	181	-21.802	66.577	121.044	1.00	66.82	C
ATOM	1190	C	ALA	A	181	-22.922	65.761	121.672	1.00	65.66	C
ATOM	1191	O	ALA	A	181	-22.753	64.566	121.912	1.00	68.03	O
ATOM	1192	CB	ALA	A	181	-21.291	67.612	122.034	1.00	69.43	C
ATOM	1193	N	ASP	A	182	-24.062	66.402	121.926	1.00	62.37	N
ATOM	1194	CA	ASP	A	182	-25.206	65.715	122.524	1.00	65.99	C
ATOM	1195	C	ASP	A	182	-25.622	64.493	121.719	1.00	65.00	C
ATOM	1196	O	ASP	A	182	-25.816	63.412	122.274	1.00	59.17	O
ATOM	1197	CB	ASP	A	182	-26.406	66.658	122.656	1.00	73.88	C
ATOM	1198	CG	ASP	A	182	-26.334	67.525	123.893	1.00	80.02	C
ATOM	1199	OD1	ASP	A	182	-26.076	66.976	124.988	1.00	92.51	O
ATOM	1200	OD2	ASP	A	182	-26.547	68.751	123.779	1.00	75.90	O
ATOM	1201	N	GLY	A	183	-25.767	64.673	120.409	1.00	66.05	N
ATOM	1202	CA	GLY	A	183	-26.156	63.573	119.543	1.00	60.45	C
ATOM	1203	C	GLY	A	183	-25.245	62.364	119.683	1.00	54.15	C
ATOM	1204	O	GLY	A	183	-25.724	61.242	119.881	1.00	58.09	O
ATOM	1205	N	TYR	A	184	-23.933	62.580	119.576	1.00	45.07	N
ATOM	1206	CA	TYR	A	184	-22.985	61.485	119.711	1.00	37.39	C
ATOM	1207	C	TYR	A	184	-23.210	60.856	121.067	1.00	34.36	C
ATOM	1208	O	TYR	A	184	-23.520	59.670	121.156	1.00	32.57	O
ATOM	1209	CB	TYR	A	184	-21.548	61.986	119.596	1.00	31.49	C
ATOM	1210	CG	TYR	A	184	-21.003	61.897	118.190	1.00	28.45	C
ATOM	1211	CD1	TYR	A	184	-20.770	60.661	117.584	1.00	34.59	C
ATOM	1212	CD2	TYR	A	184	-20.758	63.045	117.444	1.00	23.65	C
ATOM	1213	CE1	TYR	A	184	-20.306	60.574	116.266	1.00	34.51	C
ATOM	1214	CE2	TYR	A	184	-20.296	62.966	116.124	1.00	26.31	C
ATOM	1215	CZ	TYR	A	184	-20.074	61.729	115.548	1.00	29.11	C
ATOM	1216	OH	TYR	A	184	-19.620	61.660	114.259	1.00	26.35	O
ATOM	1217	N	LYS	A	185	-23.074	61.662	122.120	1.00	39.05	N
ATOM	1218	CA	LYS	A	185	-23.277	61.193	123.495	1.00	48.75	C
ATOM	1219	C	LYS	A	185	-24.603	60.447	123.636	1.00	50.42	C
ATOM	1220	O	LYS	A	185	-24.643	59.297	124.074	1.00	50.83	O
ATOM	1221	CB	LYS	A	185	-23.276	62.371	124.488	1.00	58.43	C
ATOM	1222	CG	LYS	A	185	-21.929	63.073	124.702	1.00	73.82	C
ATOM	1223	CD	LYS	A	185	-21.890	63.906	126.010	1.00	82.36	C
ATOM	1224	CE	LYS	A	185	-22.888	65.063	126.016	1.00	93.18	C
ATOM	1225	NZ	LYS	A	185	-22.795	65.897	127.254	1.00	96.90	N
ATOM	1226	N	HIS	A	186	-25.686	61.121	123.263	1.00	52.77	N
ATOM	1227	CA	HIS	A	186	-27.025	60.558	123.347	1.00	49.62	C
ATOM	1228	C	HIS	A	186	-27.078	59.169	122.737	1.00	41.58	C
ATOM	1229	O	HIS	A	186	-27.262	58.180	123.441	1.00	37.23	O
ATOM	1230	CB	HIS	A	186	-28.017	61.472	122.634	1.00	54.01	C
ATOM	1231	CG	HIS	A	186	-29.447	61.124	122.894	1.00	57.63	C
ATOM	1232	ND1	HIS	A	186	-30.497	61.799	122.305	1.00	59.91	N
ATOM	1233	CD2	HIS	A	186	-30.007	60.178	123.684	1.00	60.61	C
ATOM	1234	CE1	HIS	A	186	-31.638	61.283	122.720	1.00	65.11	C
ATOM	1235	NE2	HIS	A	186	-31.369	60.296	123.558	1.00	64.41	N
ATOM	1236	N	MET	A	187	-26.919	59.104	121.421	1.00	36.42	N
ATOM	1237	CA	MET	A	187	-26.930	57.837	120.702	1.00	37.19	C
ATOM	1238	C	MET	A	187	-26.125	56.778	121.468	1.00	39.71	C
ATOM	1239	O	MET	A	187	-26.606	55.662	121.703	1.00	43.37	O
ATOM	1240	CB	MET	A	187	-26.347	58.050	119.299	1.00	27.48	C
ATOM	1241	CG	MET	A	187	-26.191	56.785	118.456	1.00	34.76	C
ATOM	1242	SD	MET	A	187	-27.734	55.889	118.163	1.00	36.92	S
ATOM	1243	CE	MET	A	187	-28.259	56.613	116.581	1.00	45.04	C
ATOM	1244	N	SER	A	188	-24.909	57.149	121.866	1.00	41.71	N
ATOM	1245	CA	SER	A	188	-24.017	56.263	122.600	1.00	37.27	C
ATOM	1246	C	SER	A	188	-24.764	55.527	123.699	1.00	31.50	C
ATOM	1247	O	SER	A	188	-24.648	54.312	123.837	1.00	29.93	O
ATOM	1248	CB	SER	A	188	-22.873	57.066	123.205	1.00	39.51	C
ATOM	1249	OG	SER	A	188	-21.937	56.205	123.826	1.00	38.33	O
ATOM	1250	N	LEU	A	189	-25.537	56.274	124.474	1.00	30.93	N
ATOM	1251	CA	LEU	A	189	-26.326	55.706	125.562	1.00	38.86	C
ATOM	1252	C	LEU	A	189	-27.498	54.864	125.034	1.00	37.08	C
ATOM	1253	O	LEU	A	189	-27.819	53.795	125.578	1.00	34.46	O
ATOM	1254	CB	LEU	A	189	-26.871	56.840	126.434	1.00	51.38	C
ATOM	1255	CG	LEU	A	189	-25.869	57.868	126.964	1.00	55.89	C

ATOM	1256	CD1	LEU	A	189	-26.630	59.095	127.449	1.00	62.91	C
ATOM	1257	CD2	LEU	A	189	-25.018	57.255	128.078	1.00	48.77	C
ATOM	1258	N	ALA	A	190	-28.136	55.367	123.979	1.00	34.71	N
ATOM	1259	CA	ALA	A	190	-29.266	54.689	123.364	1.00	36.52	C
ATOM	1260	C	ALA	A	190	-28.897	53.247	123.064	1.00	41.07	C
ATOM	1261	O	ALA	A	190	-29.653	52.325	123.367	1.00	45.62	O
ATOM	1262	CB	ALA	A	190	-29.662	55.397	122.092	1.00	32.84	C
ATOM	1263	N	LEU	A	191	-27.724	53.060	122.473	1.00	41.81	N
ATOM	1264	CA	LEU	A	191	-27.240	51.733	122.133	1.00	43.27	C
ATOM	1265	C	LEU	A	191	-27.056	50.828	123.359	1.00	45.92	C
ATOM	1266	O	LEU	A	191	-27.756	49.827	123.502	1.00	46.02	O
ATOM	1267	CB	LEU	A	191	-25.931	51.865	121.354	1.00	38.79	C
ATOM	1268	CG	LEU	A	191	-26.052	52.702	120.071	1.00	38.54	C
ATOM	1269	CD1	LEU	A	191	-24.669	52.980	119.495	1.00	40.68	C
ATOM	1270	CD2	LEU	A	191	-26.916	51.970	119.045	1.00	41.30	C
ATOM	1271	N	ASN	A	192	-26.125	51.160	124.245	1.00	50.32	N
ATOM	1272	CA	ASN	A	192	-25.933	50.314	125.412	1.00	51.94	C
ATOM	1273	C	ASN	A	192	-27.311	49.916	125.898	1.00	51.27	C
ATOM	1274	O	ASN	A	192	-27.566	48.751	126.184	1.00	53.27	O
ATOM	1275	CB	ASN	A	192	-25.190	51.056	126.523	1.00	51.78	C
ATOM	1276	CG	ASN	A	192	-24.865	50.153	127.715	1.00	51.63	C
ATOM	1277	OD1	ASN	A	192	-25.766	49.594	128.339	1.00	64.23	O
ATOM	1278	ND2	ASN	A	192	-23.574	50.016	128.021	1.00	45.03	N
ATOM	1279	N	ARG	A	193	-28.209	50.893	125.945	1.00	55.36	N
ATOM	1280	CA	ARG	A	193	-29.565	50.653	126.400	1.00	62.45	C
ATOM	1281	C	ARG	A	193	-30.216	49.485	125.669	1.00	55.61	C
ATOM	1282	O	ARG	A	193	-30.807	48.608	126.295	1.00	59.33	O
ATOM	1283	CB	ARG	A	193	-30.403	51.910	126.207	1.00	73.86	C
ATOM	1284	CG	ARG	A	193	-31.760	51.866	126.876	1.00	95.58	C
ATOM	1285	CD	ARG	A	193	-32.437	53.194	126.676	1.00	110.48	C
ATOM	1286	NE	ARG	A	193	-31.459	54.266	126.821	1.00	120.92	N
ATOM	1287	CZ	ARG	A	193	-31.697	55.547	126.561	1.00	125.94	C
ATOM	1288	NH1	ARG	A	193	-32.892	55.935	126.141	1.00	130.65	N
ATOM	1289	NH2	ARG	A	193	-30.732	56.444	126.713	1.00	126.19	N
ATOM	1290	N	THR	A	194	-30.100	49.465	124.345	1.00	43.02	N
ATOM	1291	CA	THR	A	194	-30.702	48.398	123.546	1.00	36.14	C
ATOM	1292	C	THR	A	194	-30.298	47.013	124.034	1.00	32.48	C
ATOM	1293	O	THR	A	194	-31.037	46.044	123.835	1.00	29.14	O
ATOM	1294	CB	THR	A	194	-30.297	48.485	122.069	1.00	35.70	C
ATOM	1295	OG1	THR	A	194	-28.926	48.095	121.938	1.00	35.73	O
ATOM	1296	CG2	THR	A	194	-30.475	49.900	121.535	1.00	39.30	C
ATOM	1297	N	GLY	A	195	-29.121	46.918	124.652	1.00	30.85	N
ATOM	1298	CA	GLY	A	195	-28.651	45.636	125.154	1.00	34.30	C
ATOM	1299	C	GLY	A	195	-27.734	44.899	124.193	1.00	36.49	C
ATOM	1300	O	GLY	A	195	-26.890	44.100	124.600	1.00	36.19	O
ATOM	1301	N	ARG	A	196	-27.905	45.163	122.906	1.00	40.82	N
ATOM	1302	CA	ARG	A	196	-27.087	44.538	121.876	1.00	46.67	C
ATOM	1303	C	ARG	A	196	-25.670	45.098	122.013	1.00	48.09	C
ATOM	1304	O	ARG	A	196	-25.489	46.299	122.195	1.00	54.78	O
ATOM	1305	CB	ARG	A	196	-27.673	44.870	120.490	1.00	54.84	C
ATOM	1306	CG	ARG	A	196	-26.968	44.253	119.286	1.00	63.61	C
ATOM	1307	CD	ARG	A	196	-27.506	42.876	118.919	1.00	72.08	C
ATOM	1308	NE	ARG	A	196	-26.709	42.287	117.848	1.00	77.41	N
ATOM	1309	CZ	ARG	A	196	-26.723	41.002	117.514	1.00	85.11	C
ATOM	1310	NH1	ARG	A	196	-27.499	40.145	118.159	1.00	84.72	N
ATOM	1311	NH2	ARG	A	196	-25.936	40.569	116.544	1.00	93.60	N
ATOM	1312	N	SER	A	197	-24.667	44.228	121.955	1.00	45.00	N
ATOM	1313	CA	SER	A	197	-23.276	44.667	122.050	1.00	44.47	C
ATOM	1314	C	SER	A	197	-22.887	45.261	120.692	1.00	50.27	C
ATOM	1315	O	SER	A	197	-22.621	44.519	119.740	1.00	55.75	O
ATOM	1316	CB	SER	A	197	-22.367	43.478	122.371	1.00	41.44	C
ATOM	1317	OG	SER	A	197	-22.822	42.793	123.524	1.00	44.41	O
ATOM	1318	N	ILE	A	198	-22.846	46.591	120.603	1.00	49.87	N
ATOM	1319	CA	ILE	A	198	-22.519	47.278	119.343	1.00	46.63	C
ATOM	1320	C	ILE	A	198	-21.248	48.130	119.359	1.00	41.34	C
ATOM	1321	O	ILE	A	198	-21.197	49.145	120.042	1.00	44.43	O
ATOM	1322	CB	ILE	A	198	-23.663	48.236	118.911	1.00	47.20	C
ATOM	1323	CG1	ILE	A	198	-25.025	47.552	119.043	1.00	45.40	C
ATOM	1324	CG2	ILE	A	198	-23.441	48.687	117.481	1.00	47.83	C
ATOM	1325	CD1	ILE	A	198	-26.198	48.496	118.835	1.00	31.46	C
ATOM	1326	N	VAL	A	199	-20.227	47.744	118.602	1.00	35.54	N
ATOM	1327	CA	VAL	A	199	-19.019	48.561	118.560	1.00	33.21	C
ATOM	1328	C	VAL	A	199	-19.430	49.899	117.960	1.00	25.97	C
ATOM	1329	O	VAL	A	199	-19.899	49.973	116.823	1.00	21.07	O
ATOM	1330	CB	VAL	A	199	-17.919	47.949	117.673	1.00	37.47	C
ATOM	1331	CG1	VAL	A	199	-16.794	48.968	117.472	1.00	34.52	C
ATOM	1332	CG2	VAL	A	199	-17.369	46.686	118.322	1.00	50.88	C
ATOM	1333	N	TYR	A	200	-19.242	50.956	118.734	1.00	22.51	N
ATOM	1334	CA	TYR	A	200	-19.622	52.293	118.317	1.00	21.72	C

ATOM	1335	C	TYR	A	200	-18.416	53.090	117.848	1.00	23.34	C
ATOM	1336	O	TYR	A	200	-17.535	53.419	118.652	1.00	19.31	O
ATOM	1337	CB	TYR	A	200	-20.287	52.978	119.499	1.00	25.92	C
ATOM	1338	CG	TYR	A	200	-20.828	54.353	119.240	1.00	27.65	C
ATOM	1339	CD1	TYR	A	200	-21.529	54.641	118.079	1.00	27.17	C
ATOM	1340	CD2	TYR	A	200	-20.698	55.355	120.204	1.00	31.21	C
ATOM	1341	CE1	TYR	A	200	-22.095	55.900	117.885	1.00	42.25	C
ATOM	1342	CE2	TYR	A	200	-21.259	56.613	120.025	1.00	29.28	C
ATOM	1343	CZ	TYR	A	200	-21.957	56.885	118.863	1.00	37.99	C
ATOM	1344	OH	TYR	A	200	-22.508	58.144	118.692	1.00	31.41	O
ATOM	1345	N	SER	A	201	-18.382	53.397	116.548	1.00	28.17	N
ATOM	1346	CA	SER	A	201	-17.278	54.157	115.937	1.00	30.84	C
ATOM	1347	C	SER	A	201	-17.668	55.572	115.552	1.00	28.96	C
ATOM	1348	O	SER	A	201	-18.321	55.796	114.531	1.00	33.52	O
ATOM	1349	CB	SER	A	201	-16.743	53.457	114.688	1.00	26.64	C
ATOM	1350	OG	SER	A	201	-15.694	54.218	114.117	1.00	30.76	O
ATOM	1351	N	CYS	A	202	-17.220	56.524	116.362	1.00	23.89	N
ATOM	1352	CA	CYS	A	202	-17.526	57.923	116.149	1.00	21.53	C
ATOM	1353	C	CYS	A	202	-16.596	58.634	115.165	1.00	21.15	C
ATOM	1354	O	CYS	A	202	-15.539	58.123	114.772	1.00	19.31	O
ATOM	1355	CB	CYS	A	202	-17.514	58.632	117.488	1.00	22.65	C
ATOM	1356	SG	CYS	A	202	-18.438	57.690	118.743	1.00	42.79	S
ATOM	1357	N	GLU	A	203	-17.030	59.822	114.758	1.00	16.28	N
ATOM	1358	CA	GLU	A	203	-16.309	60.680	113.816	1.00	12.10	C
ATOM	1359	C	GLU	A	203	-16.364	62.067	114.456	1.00	7.30	C
ATOM	1360	O	GLU	A	203	-15.940	63.067	113.889	1.00	14.33	O
ATOM	1361	CB	GLU	A	203	-17.036	60.667	112.460	1.00	3.31	C
ATOM	1362	CG	GLU	A	203	-16.229	61.165	111.289	1.00	17.29	C
ATOM	1363	CD	GLU	A	203	-16.838	60.769	109.957	1.00	28.70	C
ATOM	1364	OE1	GLU	A	203	-16.898	59.559	109.647	1.00	41.61	O
ATOM	1365	OE2	GLU	A	203	-17.272	61.679	109.222	1.00	46.00	O
ATOM	1366	N	TRP	A	204	-16.901	62.079	115.669	1.00	3.31	N
ATOM	1367	CA	TRP	A	204	-17.071	63.264	116.496	1.00	13.93	C
ATOM	1368	C	TRP	A	204	-15.931	64.297	116.392	1.00	20.85	C
ATOM	1369	O	TRP	A	204	-16.138	65.412	115.924	1.00	22.89	O
ATOM	1370	CB	TRP	A	204	-17.226	62.796	117.944	1.00	21.92	C
ATOM	1371	CG	TRP	A	204	-17.538	63.837	118.967	1.00	21.15	C
ATOM	1372	CD1	TRP	A	204	-17.489	65.194	118.820	1.00	20.49	C
ATOM	1373	CD2	TRP	A	204	-17.930	63.590	120.328	1.00	20.34	C
ATOM	1374	NE1	TRP	A	204	-17.826	65.807	120.010	1.00	20.84	N
ATOM	1375	CE2	TRP	A	204	-18.102	64.846	120.948	1.00	25.47	C
ATOM	1376	CE3	TRP	A	204	-18.153	62.424	121.082	1.00	15.62	C
ATOM	1377	CZ2	TRP	A	204	-18.488	64.974	122.283	1.00	32.99	C
ATOM	1378	CZ3	TRP	A	204	-18.538	62.551	122.408	1.00	21.84	C
ATOM	1379	CH2	TRP	A	204	-18.702	63.820	122.995	1.00	31.17	C
ATOM	1380	N	PRO	A	205	-14.705	63.919	116.799	1.00	27.07	N
ATOM	1381	CA	PRO	A	205	-13.530	64.801	116.772	1.00	22.40	C
ATOM	1382	C	PRO	A	205	-13.351	65.527	115.454	1.00	12.76	C
ATOM	1383	O	PRO	A	205	-13.259	66.750	115.422	1.00	3.31	O
ATOM	1384	CB	PRO	A	205	-12.370	63.848	117.031	1.00	32.69	C
ATOM	1385	CG	PRO	A	205	-12.998	62.723	117.788	1.00	38.48	C
ATOM	1386	CD	PRO	A	205	-14.290	62.529	117.057	1.00	37.95	C
ATOM	1387	N	LEU	A	206	-13.273	64.757	114.373	1.00	13.29	N
ATOM	1388	CA	LEU	A	206	-13.093	65.309	113.037	1.00	26.78	C
ATOM	1389	C	LEU	A	206	-13.978	66.534	112.799	1.00	29.49	C
ATOM	1390	O	LEU	A	206	-13.658	67.386	111.968	1.00	31.08	O
ATOM	1391	CB	LEU	A	206	-13.408	64.238	111.982	1.00	31.93	C
ATOM	1392	CG	LEU	A	206	-13.608	64.726	110.548	1.00	35.55	C
ATOM	1393	CD1	LEU	A	206	-12.286	65.202	109.981	1.00	44.15	C
ATOM	1394	CD2	LEU	A	206	-14.170	63.613	109.706	1.00	41.86	C
ATOM	1395	N	TYR	A	207	-15.087	66.636	113.518	1.00	33.41	N
ATOM	1396	CA	TYR	A	207	-15.958	67.769	113.297	1.00	42.82	C
ATOM	1397	C	TYR	A	207	-15.765	68.959	114.229	1.00	45.66	C
ATOM	1398	O	TYR	A	207	-16.081	70.092	113.854	1.00	38.41	O
ATOM	1399	CB	TYR	A	207	-17.392	67.276	113.287	1.00	47.19	C
ATOM	1400	CG	TYR	A	207	-17.693	66.544	112.009	1.00	48.83	C
ATOM	1401	CD1	TYR	A	207	-17.773	67.236	110.814	1.00	48.74	C
ATOM	1402	CD2	TYR	A	207	-17.877	65.161	111.984	1.00	49.99	C
ATOM	1403	CE1	TYR	A	207	-18.031	66.582	109.623	1.00	47.79	C
ATOM	1404	CE2	TYR	A	207	-18.137	64.494	110.794	1.00	47.50	C
ATOM	1405	CZ	TYR	A	207	-18.213	65.219	109.617	1.00	46.58	C
ATOM	1406	OH	TYR	A	207	-18.482	64.602	108.418	1.00	52.10	O
ATOM	1407	N	MET	A	208	-15.229	68.725	115.426	1.00	54.64	N
ATOM	1408	CA	MET	A	208	-14.997	69.824	116.356	1.00	62.16	C
ATOM	1409	C	MET	A	208	-13.958	70.772	115.774	1.00	62.53	C
ATOM	1410	O	MET	A	208	-14.064	71.980	115.937	1.00	67.29	O
ATOM	1411	CB	MET	A	208	-14.528	69.300	117.716	1.00	67.91	C
ATOM	1412	CG	MET	A	208	-15.582	68.483	118.445	1.00	61.69	C
ATOM	1413	SD	MET	A	208	-15.311	68.428	120.219	1.00	56.66	S

ATOM	1414	CE	MET	A	208	-15.639	70.115	120.650	1.00	59.92	C
ATOM	1415	N	TRP	A	209	-12.951	70.223	115.102	1.00	57.06	N
ATOM	1416	CA	TRP	A	209	-11.937	71.057	114.492	1.00	56.77	C
ATOM	1417	C	TRP	A	209	-12.627	71.785	113.353	1.00	65.26	C
ATOM	1418	O	TRP	A	209	-13.511	71.236	112.705	1.00	63.65	O
ATOM	1419	CB	TRP	A	209	-10.809	70.205	113.898	1.00	58.79	C
ATOM	1420	CG	TRP	A	209	-10.199	69.256	114.863	1.00	63.98	C
ATOM	1421	CD1	TRP	A	209	-10.758	68.117	115.351	1.00	68.80	C
ATOM	1422	CD2	TRP	A	209	-8.923	69.384	115.503	1.00	69.51	C
ATOM	1423	NE1	TRP	A	209	-9.915	67.524	116.259	1.00	75.45	N
ATOM	1424	CE2	TRP	A	209	-8.780	68.281	116.372	1.00	73.01	C
ATOM	1425	CE3	TRP	A	209	-7.886	70.324	115.427	1.00	77.58	C
ATOM	1426	CZ2	TRP	A	209	-7.642	68.091	117.166	1.00	77.64	C
ATOM	1427	CZ3	TRP	A	209	-6.752	70.134	116.219	1.00	81.84	C
ATOM	1428	CH2	TRP	A	209	-6.643	69.024	117.076	1.00	79.91	C
ATOM	1429	N	PRO	A	210	-12.286	73.057	113.133	1.00	77.49	N
ATOM	1430	CA	PRO	A	210	-11.268	73.837	113.844	1.00	83.21	C
ATOM	1431	C	PRO	A	210	-11.939	74.940	114.688	1.00	79.01	C
ATOM	1432	O	PRO	A	210	-11.673	76.139	114.516	1.00	75.34	O
ATOM	1433	CB	PRO	A	210	-10.420	74.399	112.721	1.00	90.90	C
ATOM	1434	CG	PRO	A	210	-11.471	74.755	111.704	1.00	92.14	C
ATOM	1435	CD	PRO	A	210	-12.462	73.592	111.761	1.00	83.73	C
ATOM	1436	N	PHE	A	211	-12.815	74.512	115.590	1.00	76.58	N
ATOM	1437	CA	PHE	A	211	-13.545	75.420	116.468	1.00	73.52	C
ATOM	1438	C	PHE	A	211	-12.979	75.306	117.878	1.00	74.63	C
ATOM	1439	O	PHE	A	211	-12.983	76.273	118.642	1.00	77.50	O
ATOM	1440	CB	PHE	A	211	-15.029	75.056	116.446	1.00	69.72	C
ATOM	1441	CG	PHE	A	211	-15.570	74.891	115.059	1.00	67.85	C
ATOM	1442	CD1	PHE	A	211	-15.525	75.948	114.158	1.00	66.48	C
ATOM	1443	CD2	PHE	A	211	-16.054	73.664	114.624	1.00	68.57	C
ATOM	1444	CE1	PHE	A	211	-15.946	75.780	112.855	1.00	63.01	C
ATOM	1445	CE2	PHE	A	211	-16.478	73.494	113.310	1.00	66.32	C
ATOM	1446	CZ	PHE	A	211	-16.420	74.556	112.431	1.00	58.64	C
ATOM	1447	N	GLN	A	212	-12.485	74.122	118.216	1.00	73.94	N
ATOM	1448	CA	GLN	A	212	-11.889	73.900	119.516	1.00	72.71	C
ATOM	1449	C	GLN	A	212	-11.416	72.470	119.643	1.00	67.26	C
ATOM	1450	O	GLN	A	212	-12.089	71.534	119.197	1.00	66.79	O
ATOM	1451	CB	GLN	A	212	-12.874	74.241	120.638	1.00	82.79	C
ATOM	1452	CG	GLN	A	212	-14.246	73.590	120.537	1.00	94.62	C
ATOM	1453	CD	GLN	A	212	-15.224	74.107	121.597	1.00	101.94	C
ATOM	1454	OE1	GLN	A	212	-15.575	75.280	121.596	1.00	107.83	O
ATOM	1455	NE2	GLN	A	212	-15.648	73.235	122.508	1.00	101.67	N
ATOM	1456	N	LYS	A	213	-10.241	72.313	120.235	1.00	66.10	N
ATOM	1457	CA	LYS	A	213	-9.673	71.002	120.431	1.00	72.81	C
ATOM	1458	C	LYS	A	213	-10.686	70.246	121.291	1.00	67.35	C
ATOM	1459	O	LYS	A	213	-11.203	70.780	122.264	1.00	68.84	O
ATOM	1460	CB	LYS	A	213	-8.321	71.121	121.147	1.00	86.07	C
ATOM	1461	CG	LYS	A	213	-7.531	72.359	120.742	1.00	100.84	C
ATOM	1462	CD	LYS	A	213	-8.194	73.597	121.312	1.00	110.24	C
ATOM	1463	CE	LYS	A	213	-7.474	74.868	120.947	1.00	115.97	C
ATOM	1464	NZ	LYS	A	213	-8.130	76.003	121.647	1.00	113.67	N
ATOM	1465	N	PRO	A	214	-10.992	68.994	120.925	1.00	63.52	N
ATOM	1466	CA	PRO	A	214	-11.951	68.140	121.643	1.00	65.13	C
ATOM	1467	C	PRO	A	214	-11.464	67.635	122.998	1.00	64.40	C
ATOM	1468	O	PRO	A	214	-10.277	67.648	123.269	1.00	66.33	O
ATOM	1469	CB	PRO	A	214	-12.171	66.984	120.666	1.00	72.41	C
ATOM	1470	CG	PRO	A	214	-11.718	67.518	119.322	1.00	65.19	C
ATOM	1471	CD	PRO	A	214	-10.519	68.333	119.694	1.00	61.91	C
ATOM	1472	N	ASN	A	215	-12.387	67.220	123.854	1.00	65.67	N
ATOM	1473	CA	ASN	A	215	-11.989	66.670	125.138	1.00	67.56	C
ATOM	1474	C	ASN	A	215	-11.969	65.171	124.904	1.00	62.72	C
ATOM	1475	O	ASN	A	215	-12.946	64.479	125.173	1.00	59.58	O
ATOM	1476	CB	ASN	A	215	-12.998	67.014	126.235	1.00	81.52	C
ATOM	1477	CG	ASN	A	215	-12.635	66.389	127.567	1.00	93.94	C
ATOM	1478	OD1	ASN	A	215	-11.640	65.666	127.656	1.00	97.55	O
ATOM	1479	ND2	ASN	A	215	-13.421	66.667	128.608	1.00	106.11	N
ATOM	1480	N	TYR	A	216	-10.852	64.681	124.381	1.00	58.40	N
ATOM	1481	CA	TYR	A	216	-10.702	63.267	124.061	1.00	51.54	C
ATOM	1482	C	TYR	A	216	-11.016	62.331	125.217	1.00	52.52	C
ATOM	1483	O	TYR	A	216	-11.460	61.197	125.006	1.00	46.44	O
ATOM	1484	CB	TYR	A	216	-9.285	62.987	123.556	1.00	43.79	C
ATOM	1485	CG	TYR	A	216	-9.029	63.400	122.122	1.00	33.73	C
ATOM	1486	CD1	TYR	A	216	-9.687	62.772	121.064	1.00	33.94	C
ATOM	1487	CD2	TYR	A	216	-8.116	64.415	121.814	1.00	28.64	C
ATOM	1488	CE1	TYR	A	216	-9.439	63.146	119.726	1.00	22.17	C
ATOM	1489	CE2	TYR	A	216	-7.868	64.795	120.477	1.00	22.68	C
ATOM	1490	CZ	TYR	A	216	-8.533	64.156	119.440	1.00	19.76	C
ATOM	1491	OH	TYR	A	216	-8.293	64.523	118.125	1.00	20.60	O
ATOM	1492	N	THR	A	217	-10.769	62.788	126.440	1.00	51.36	N



ATOM	1493	CA	THR	A	217	-11.046	61.952	127.603	1.00	50.03	C
ATOM	1494	C	THR	A	217	-12.546	61.764	127.630	1.00	49.02	C
ATOM	1495	O	THR	A	217	-13.045	60.706	128.003	1.00	56.07	O
ATOM	1496	CB	THR	A	217	-10.591	62.623	128.909	1.00	51.67	C
ATOM	1497	OG1	THR	A	217	-9.252	63.112	128.750	1.00	59.45	O
ATOM	1498	CG2	THR	A	217	-10.606	61.618	130.053	1.00	50.17	C
ATOM	1499	N	GLU	A	218	-13.251	62.810	127.217	1.00	44.02	N
ATOM	1500	CA	GLU	A	218	-14.702	62.804	127.151	1.00	38.09	C
ATOM	1501	C	GLU	A	218	-15.095	61.779	126.101	1.00	30.35	C
ATOM	1502	O	GLU	A	218	-15.626	60.714	126.408	1.00	31.42	O
ATOM	1503	CB	GLU	A	218	-15.182	64.196	126.747	1.00	45.80	C
ATOM	1504	CG	GLU	A	218	-16.669	64.351	126.544	1.00	56.73	C
ATOM	1505	CD	GLU	A	218	-17.145	65.729	126.966	1.00	62.81	C
ATOM	1506	OE1	GLU	A	218	-17.061	66.034	128.180	1.00	64.60	O
ATOM	1507	OE2	GLU	A	218	-17.591	66.506	126.093	1.00	51.07	O
ATOM	1508	N	ILE	A	219	-14.804	62.116	124.854	1.00	20.92	N
ATOM	1509	CA	ILE	A	219	-15.092	61.260	123.711	1.00	16.81	C
ATOM	1510	C	ILE	A	219	-14.830	59.784	123.978	1.00	19.92	C
ATOM	1511	O	ILE	A	219	-15.674	58.938	123.685	1.00	26.14	O
ATOM	1512	CB	ILE	A	219	-14.233	61.659	122.517	1.00	18.69	C
ATOM	1513	CG1	ILE	A	219	-14.460	63.136	122.189	1.00	28.40	C
ATOM	1514	CG2	ILE	A	219	-14.546	60.759	121.343	1.00	3.31	C
ATOM	1515	CD1	ILE	A	219	-13.861	63.582	120.873	1.00	35.19	C
ATOM	1516	N	ARG	A	220	-13.645	59.488	124.511	1.00	22.71	N
ATOM	1517	CA	ARG	A	220	-13.250	58.121	124.815	1.00	32.74	C
ATOM	1518	C	ARG	A	220	-14.251	57.426	125.723	1.00	36.46	C
ATOM	1519	O	ARG	A	220	-14.291	56.202	125.778	1.00	41.29	O
ATOM	1520	CB	ARG	A	220	-11.862	58.100	125.458	1.00	34.29	C
ATOM	1521	CG	ARG	A	220	-11.602	56.838	126.251	1.00	44.46	C
ATOM	1522	CD	ARG	A	220	-10.137	56.579	126.435	1.00	58.36	C
ATOM	1523	NE	ARG	A	220	-9.873	55.151	126.320	1.00	81.14	N
ATOM	1524	CZ	ARG	A	220	-8.660	54.612	126.325	1.00	95.08	C
ATOM	1525	NH1	ARG	A	220	-7.589	55.383	126.442	1.00	100.76	N
ATOM	1526	NH2	ARG	A	220	-8.519	53.300	126.202	1.00	102.37	N
ATOM	1527	N	GLN	A	221	-15.054	58.205	126.441	1.00	38.90	N
ATOM	1528	CA	GLN	A	221	-16.063	57.643	127.334	1.00	44.66	C
ATOM	1529	C	GLN	A	221	-17.346	57.461	126.563	1.00	42.86	C
ATOM	1530	O	GLN	A	221	-18.404	57.257	127.147	1.00	46.12	O
ATOM	1531	CB	GLN	A	221	-16.354	58.583	128.493	1.00	51.89	C
ATOM	1532	CG	GLN	A	221	-15.174	58.935	129.342	1.00	68.94	C
ATOM	1533	CD	GLN	A	221	-15.591	59.700	130.569	1.00	74.55	O
ATOM	1534	OE1	GLN	A	221	-16.235	60.746	130.476	1.00	78.39	O
ATOM	1535	NE2	GLN	A	221	-15.230	59.182	131.733	1.00	80.79	N
ATOM	1536	N	TYR	A	222	-17.247	57.542	125.244	1.00	45.18	N
ATOM	1537	CA	TYR	A	222	-18.415	57.416	124.389	1.00	48.79	C
ATOM	1538	C	TYR	A	222	-18.160	56.677	123.082	1.00	50.19	C
ATOM	1539	O	TYR	A	222	-19.099	56.411	122.326	1.00	52.15	O
ATOM	1540	CB	TYR	A	222	-18.957	58.805	124.062	1.00	46.63	C
ATOM	1541	CG	TYR	A	222	-19.687	59.469	125.197	1.00	54.32	C
ATOM	1542	CD1	TYR	A	222	-20.824	58.885	125.751	1.00	63.31	C
ATOM	1543	CD2	TYR	A	222	-19.280	60.707	125.680	1.00	63.38	C
ATOM	1544	CE1	TYR	A	222	-21.540	59.521	126.747	1.00	65.52	C
ATOM	1545	CE2	TYR	A	222	-19.990	61.353	126.681	1.00	68.64	C
ATOM	1546	CZ	TYR	A	222	-21.120	60.756	127.205	1.00	64.38	C
ATOM	1547	OH	TYR	A	222	-21.847	61.409	128.164	1.00	59.66	O
ATOM	1548	N	CYS	A	223	-16.905	56.341	122.806	1.00	47.24	N
ATOM	1549	CA	CYS	A	223	-16.600	55.672	121.555	1.00	43.05	C
ATOM	1550	C	CYS	A	223	-15.539	54.605	121.640	1.00	43.74	C
ATOM	1551	O	CYS	A	223	-14.649	54.652	122.490	1.00	48.31	O
ATOM	1552	CB	CYS	A	223	-16.183	56.714	120.538	1.00	39.27	C
ATOM	1553	SG	CYS	A	223	-17.410	58.054	120.464	1.00	34.96	S
ATOM	1554	N	ASN	A	224	-15.644	53.636	120.741	1.00	38.10	N
ATOM	1555	CA	ASN	A	224	-14.684	52.552	120.681	1.00	33.51	C
ATOM	1556	C	ASN	A	224	-13.505	53.023	119.840	1.00	31.77	C
ATOM	1557	O	ASN	A	224	-12.395	52.498	119.939	1.00	33.20	O
ATOM	1558	CB	ASN	A	224	-15.367	51.323	120.104	1.00	35.64	C
ATOM	1559	CG	ASN	A	224	-16.398	50.759	121.056	1.00	35.91	C
ATOM	1560	OD1	ASN	A	224	-17.510	50.428	120.665	1.00	32.93	O
ATOM	1561	ND2	ASN	A	224	-16.026	50.646	122.323	1.00	23.40	N
ATOM	1562	N	HIS	A	225	-13.772	54.029	119.014	1.00	33.52	N
ATOM	1563	CA	HIS	A	225	-12.771	54.677	118.177	1.00	37.53	C
ATOM	1564	C	HIS	A	225	-13.418	55.766	117.343	1.00	40.70	C
ATOM	1565	O	HIS	A	225	-14.551	55.649	116.892	1.00	48.21	O
ATOM	1566	CB	HIS	A	225	-11.966	53.679	117.322	1.00	37.41	C
ATOM	1567	CG	HIS	A	225	-12.763	52.542	116.770	1.00	35.26	C
ATOM	1568	ND1	HIS	A	225	-13.722	52.703	115.793	1.00	34.57	N
ATOM	1569	CD2	HIS	A	225	-12.696	51.214	117.019	1.00	31.85	C
ATOM	1570	CE1	HIS	A	225	-14.208	51.521	115.464	1.00	26.70	C
ATOM	1571	NE2	HIS	A	225	-13.602	50.601	116.193	1.00	27.50	N



ATOM	1572	N	TRP	A	226	-12.665	56.839	117.166	1.00	40.42	N
ATOM	1573	CA	TRP	A	226	-13.114	58.039	116.477	1.00	36.10	C
ATOM	1574	C	TRP	A	226	-12.185	58.503	115.343	1.00	34.31	C
ATOM	1575	O	TRP	A	226	-10.994	58.189	115.340	1.00	37.97	O
ATOM	1576	CB	TRP	A	226	-13.201	59.127	117.530	1.00	26.81	C
ATOM	1577	CG	TRP	A	226	-11.949	59.110	118.387	1.00	31.92	C
ATOM	1578	CD1	TRP	A	226	-10.738	59.675	118.081	1.00	35.48	C
ATOM	1579	CD2	TRP	A	226	-11.746	58.383	119.613	1.00	33.48	C
ATOM	1580	NE1	TRP	A	226	-9.802	59.344	119.032	1.00	31.17	N
ATOM	1581	CE2	TRP	A	226	-10.394	58.556	119.984	1.00	30.89	C
ATOM	1582	CE3	TRP	A	226	-12.575	57.607	120.433	1.00	35.17	C
ATOM	1583	CZ2	TRP	A	226	-9.850	57.972	121.132	1.00	27.64	C
ATOM	1584	CZ3	TRP	A	226	-12.030	57.027	121.576	1.00	35.04	C
ATOM	1585	CH2	TRP	A	226	-10.681	57.219	121.914	1.00	28.55	C
ATOM	1586	N	ARG	A	227	-12.735	59.254	114.389	1.00	27.57	N
ATOM	1587	CA	ARG	A	227	-11.955	59.790	113.273	1.00	30.76	C
ATOM	1588	C	ARG	A	227	-11.303	61.097	113.696	1.00	35.75	C
ATOM	1589	O	ARG	A	227	-11.854	61.822	114.511	1.00	36.24	O
ATOM	1590	CB	ARG	A	227	-12.861	60.057	112.080	1.00	32.55	C
ATOM	1591	CG	ARG	A	227	-13.215	58.830	111.283	1.00	33.73	C
ATOM	1592	CD	ARG	A	227	-12.012	58.339	110.509	1.00	40.53	C
ATOM	1593	NE	ARG	A	227	-11.628	59.262	109.450	1.00	31.33	N
ATOM	1594	CZ	ARG	A	227	-12.398	59.555	108.410	1.00	37.34	C
ATOM	1595	NH1	ARG	A	227	-13.593	58.999	108.294	1.00	30.72	N
ATOM	1596	NH2	ARG	A	227	-11.970	60.395	107.481	1.00	45.28	N
ATOM	1597	N	ASN	A	228	-10.137	61.406	113.145	1.00	34.78	N
ATOM	1598	CA	ASN	A	228	-9.447	62.639	113.505	1.00	35.77	C
ATOM	1599	C	ASN	A	228	-9.193	63.528	112.311	1.00	39.43	C
ATOM	1600	O	ASN	A	228	-9.435	64.727	112.351	1.00	40.12	O
ATOM	1601	CB	ASN	A	228	-8.099	62.344	114.176	1.00	43.19	C
ATOM	1602	CG	ASN	A	228	-8.245	61.660	115.525	1.00	56.29	C
ATOM	1603	OD1	ASN	A	228	-9.082	62.038	116.342	1.00	56.53	O
ATOM	1604	ND2	ASN	A	228	-7.413	60.654	115.769	1.00	66.96	N
ATOM	1605	N	PHE	A	229	-8.699	62.929	111.241	1.00	45.11	N
ATOM	1606	CA	PHE	A	229	-8.377	63.681	110.038	1.00	42.74	C
ATOM	1607	C	PHE	A	229	-9.375	63.406	108.920	1.00	37.97	C
ATOM	1608	O	PHE	A	229	-10.218	62.516	109.034	1.00	31.13	O
ATOM	1609	CB	PHE	A	229	-6.964	63.315	109.571	1.00	38.01	C
ATOM	1610	CG	PHE	A	229	-6.359	64.315	108.641	1.00	31.14	C
ATOM	1611	CD1	PHE	A	229	-6.097	65.610	109.077	1.00	29.66	C
ATOM	1612	CD2	PHE	A	229	-6.081	63.973	107.319	1.00	38.07	C
ATOM	1613	CE1	PHE	A	229	-5.568	66.552	108.212	1.00	45.65	C
ATOM	1614	CE2	PHE	A	229	-5.553	64.906	106.440	1.00	39.87	C
ATOM	1615	CZ	PHE	A	229	-5.297	66.201	106.886	1.00	44.87	C
ATOM	1616	N	ALA	A	230	-9.266	64.176	107.841	1.00	40.67	N
ATOM	1617	CA	ALA	A	230	-10.136	64.037	106.673	1.00	45.66	C
ATOM	1618	C	ALA	A	230	-10.186	62.599	106.153	1.00	43.65	C
ATOM	1619	O	ALA	A	230	-9.459	61.738	106.645	1.00	40.62	O
ATOM	1620	CB	ALA	A	230	-9.643	64.961	105.563	1.00	50.69	C
ATOM	1621	N	ASP	A	231	-11.044	62.336	105.166	1.00	45.95	N
ATOM	1622	CA	ASP	A	231	-11.106	60.995	104.594	1.00	46.27	C
ATOM	1623	C	ASP	A	231	-9.771	60.655	103.974	1.00	39.23	C
ATOM	1624	O	ASP	A	231	-8.800	61.402	104.111	1.00	47.23	O
ATOM	1625	CB	ASP	A	231	-12.164	60.888	103.523	1.00	57.49	C
ATOM	1626	CG	ASP	A	231	-13.526	60.822	104.092	1.00	65.88	C
ATOM	1627	OD1	ASP	A	231	-13.665	60.206	105.166	1.00	69.45	O
ATOM	1628	OD2	ASP	A	231	-14.455	61.372	103.466	1.00	71.23	O
ATOM	1629	N	ILE	A	232	-9.721	59.540	103.265	1.00	24.74	N
ATOM	1630	CA	ILE	A	232	-8.466	59.128	102.678	1.00	24.77	C
ATOM	1631	C	ILE	A	232	-8.611	58.666	101.230	1.00	33.28	C
ATOM	1632	O	ILE	A	232	-9.423	57.789	100.935	1.00	40.10	O
ATOM	1633	CB	ILE	A	232	-7.837	58.019	103.561	1.00	25.18	C
ATOM	1634	CG1	ILE	A	232	-6.497	57.550	102.984	1.00	18.54	C
ATOM	1635	CG2	ILE	A	232	-8.824	56.876	103.709	1.00	33.13	C
ATOM	1636	CD1	ILE	A	232	-5.676	56.721	103.976	1.00	18.15	C
ATOM	1637	N	ASP	A	233	-7.826	59.283	100.339	1.00	40.33	N
ATOM	1638	CA	ASP	A	233	-7.814	58.967	98.907	1.00	38.66	C
ATOM	1639	C	ASP	A	233	-6.932	57.755	98.685	1.00	33.49	C
ATOM	1640	O	ASP	A	233	-6.180	57.368	99.558	1.00	41.14	O
ATOM	1641	CB	ASP	A	233	-7.191	60.106	98.088	1.00	49.03	C
ATOM	1642	CG	ASP	A	233	-7.943	61.412	98.204	1.00	69.46	C
ATOM	1643	OD1	ASP	A	233	-9.109	61.479	97.753	1.00	80.91	O
ATOM	1644	OD2	ASP	A	233	-7.349	62.372	98.745	1.00	76.24	O
ATOM	1645	N	ASP	A	234	-7.012	57.157	97.510	1.00	27.40	N
ATOM	1646	CA	ASP	A	234	-6.143	56.037	97.208	1.00	28.65	C
ATOM	1647	C	ASP	A	234	-4.904	56.746	96.662	1.00	29.50	C
ATOM	1648	O	ASP	A	234	-4.595	56.662	95.462	1.00	28.14	O
ATOM	1649	CB	ASP	A	234	-6.777	55.147	96.141	1.00	31.14	C
ATOM	1650	CG	ASP	A	234	-5.995	53.879	95.922	1.00	35.74	C

ATOM	1651	OD1	ASP	A	234	-5.181	53.528	96.808	1.00	33.60	O
ATOM	1652	OD2	ASP	A	234	-6.196	53.219	94.884	1.00	38.85	O
ATOM	1653	N	SER	A	235	-4.213	57.458	97.556	1.00	27.77	N
ATOM	1654	CA	SER	A	235	-3.032	58.242	97.187	1.00	27.25	C
ATOM	1655	C	SER	A	235	-1.960	58.300	98.253	1.00	24.27	C
ATOM	1656	O	SER	A	235	-2.235	58.128	99.444	1.00	20.06	O
ATOM	1657	CB	SER	A	235	-3.457	59.674	96.880	1.00	36.86	C
ATOM	1658	OG	SER	A	235	-4.172	60.234	97.980	1.00	27.30	O
ATOM	1659	N	TRP	A	236	-0.733	58.573	97.831	1.00	19.59	N
ATOM	1660	CA	TRP	A	236	0.365	58.683	98.787	1.00	22.03	C
ATOM	1661	C	TRP	A	236	0.169	59.972	99.601	1.00	23.19	C
ATOM	1662	O	TRP	A	236	0.300	59.981	100.834	1.00	27.64	O
ATOM	1663	CB	TRP	A	236	1.698	58.719	98.041	1.00	23.81	C
ATOM	1664	CG	TRP	A	236	2.952	58.843	98.887	1.00	15.41	C
ATOM	1665	CD1	TRP	A	236	4.090	59.515	98.548	1.00	14.82	C
ATOM	1666	CD2	TRP	A	236	3.206	58.260	100.180	1.00	20.27	C
ATOM	1667	NE1	TRP	A	236	5.031	59.391	99.538	1.00	13.94	N
ATOM	1668	CE2	TRP	A	236	4.519	58.627	100.552	1.00	16.04	C
ATOM	1669	CE3	TRP	A	236	2.454	57.465	101.056	1.00	31.69	C
ATOM	1670	CZ2	TRP	A	236	5.098	58.230	101.761	1.00	12.53	C
ATOM	1671	CZ3	TRP	A	236	3.034	57.066	102.266	1.00	29.69	C
ATOM	1672	CH2	TRP	A	236	4.345	57.452	102.602	1.00	25.33	C
ATOM	1673	N	LYS	A	237	-0.167	61.053	98.902	1.00	25.83	N
ATOM	1674	CA	LYS	A	237	-0.396	62.347	99.532	1.00	34.83	C
ATOM	1675	C	LYS	A	237	-1.338	62.218	100.724	1.00	40.41	C
ATOM	1676	O	LYS	A	237	-0.959	62.489	101.866	1.00	44.29	O
ATOM	1677	CB	LYS	A	237	-0.990	63.316	98.517	1.00	41.22	C
ATOM	1678	CG	LYS	A	237	-1.285	64.702	99.054	1.00	50.27	C
ATOM	1679	CD	LYS	A	237	-1.854	65.592	97.958	1.00	66.37	C
ATOM	1680	CE	LYS	A	237	-2.078	67.010	98.448	1.00	75.77	C
ATOM	1681	NZ	LYS	A	237	-2.520	67.895	97.341	1.00	85.31	N
ATOM	1682	N	SER	A	238	-2.565	61.793	100.454	1.00	47.13	N
ATOM	1683	CA	SER	A	238	-3.561	61.625	101.496	1.00	49.36	C
ATOM	1684	C	SER	A	238	-2.979	60.909	102.716	1.00	41.87	C
ATOM	1685	O	SER	A	238	-3.281	61.251	103.865	1.00	43.11	O
ATOM	1686	CB	SER	A	238	-4.733	60.827	100.954	1.00	58.97	C
ATOM	1687	OG	SER	A	238	-5.767	60.730	101.922	1.00	69.91	O
ATOM	1688	N	ILE	A	239	-2.130	59.919	102.478	1.00	28.63	N
ATOM	1689	CA	ILE	A	239	-1.538	59.205	103.596	1.00	25.25	C
ATOM	1690	C	ILE	A	239	-0.518	60.068	104.307	1.00	21.50	C
ATOM	1691	O	ILE	A	239	-0.537	60.181	105.535	1.00	16.28	O
ATOM	1692	CB	ILE	A	239	-0.905	57.882	103.129	1.00	22.82	C
ATOM	1693	CG1	ILE	A	239	-2.004	56.813	103.085	1.00	30.64	C
ATOM	1694	CG2	ILE	A	239	0.247	57.481	104.031	1.00	18.42	C
ATOM	1695	CD1	ILE	A	239	-1.507	55.390	103.020	1.00	32.95	C
ATOM	1696	N	LYS	A	240	0.370	60.683	103.539	1.00	20.19	N
ATOM	1697	CA	LYS	A	240	1.387	61.533	104.128	1.00	27.65	C
ATOM	1698	C	LYS	A	240	0.753	62.543	105.075	1.00	35.03	C
ATOM	1699	O	LYS	A	240	1.134	62.633	106.249	1.00	40.16	O
ATOM	1700	CB	LYS	A	240	2.158	62.242	103.025	1.00	36.93	C
ATOM	1701	CG	LYS	A	240	2.846	61.288	102.068	1.00	41.89	C
ATOM	1702	CD	LYS	A	240	3.361	62.019	100.851	1.00	50.69	C
ATOM	1703	CE	LYS	A	240	4.362	63.097	101.229	1.00	56.56	C
ATOM	1704	NZ	LYS	A	240	4.883	63.829	100.039	1.00	68.08	N
ATOM	1705	N	SER	A	241	-0.230	63.284	104.577	1.00	32.20	N
ATOM	1706	CA	SER	A	241	-0.901	64.278	105.406	1.00	33.89	C
ATOM	1707	C	SER	A	241	-1.413	63.692	106.731	1.00	30.55	C
ATOM	1708	O	SER	A	241	-1.210	64.290	107.792	1.00	22.28	O
ATOM	1709	CB	SER	A	241	-2.050	64.932	104.628	1.00	38.13	C
ATOM	1710	OG	SER	A	241	-3.005	63.982	104.200	1.00	52.37	O
ATOM	1711	N	ILE	A	242	-2.063	62.529	106.673	1.00	25.28	N
ATOM	1712	CA	ILE	A	242	-2.581	61.888	107.884	1.00	21.26	C
ATOM	1713	C	ILE	A	242	-1.444	61.603	108.880	1.00	25.16	C
ATOM	1714	O	ILE	A	242	-1.552	61.896	110.084	1.00	25.43	O
ATOM	1715	CB	ILE	A	242	-3.348	60.569	107.546	1.00	14.21	C
ATOM	1716	CG1	ILE	A	242	-4.794	60.893	107.175	1.00	17.53	C
ATOM	1717	CG2	ILE	A	242	-3.336	59.615	108.730	1.00	13.13	C
ATOM	1718	CD1	ILE	A	242	-5.648	59.668	106.946	1.00	19.53	C
ATOM	1719	N	LEU	A	243	-0.350	61.033	108.392	1.00	18.34	N
ATOM	1720	CA	LEU	A	243	0.760	60.779	109.284	1.00	10.66	C
ATOM	1721	C	LEU	A	243	1.168	62.133	109.817	1.00	19.50	C
ATOM	1722	O	LEU	A	243	1.044	62.404	111.015	1.00	21.45	O
ATOM	1723	CB	LEU	A	243	1.919	60.159	108.527	1.00	12.02	C
ATOM	1724	CG	LEU	A	243	1.811	58.654	108.356	1.00	7.19	C
ATOM	1725	CD1	LEU	A	243	2.998	58.195	107.559	1.00	3.85	C
ATOM	1726	CD2	LEU	A	243	1.785	57.975	109.709	1.00	13.48	C
ATOM	1727	N	ASP	A	244	1.628	62.979	108.893	1.00	17.56	N
ATOM	1728	CA	ASP	A	244	2.071	64.329	109.210	1.00	19.63	C
ATOM	1729	C	ASP	A	244	1.179	64.987	110.247	1.00	20.63	C

ATOM	1730	O	ASP	A	244	1.625	65.813	111.053	1.00	17.63	O
ATOM	1731	CB	ASP	A	244	2.078	65.194	107.957	1.00	24.06	C
ATOM	1732	CG	ASP	A	244	3.213	64.850	107.017	1.00	30.13	C
ATOM	1733	OD1	ASP	A	244	4.343	64.624	107.499	1.00	37.52	O
ATOM	1734	OD2	ASP	A	244	2.999	64.832	105.787	1.00	30.05	O
ATOM	1735	N	TRP	A	245	-0.091	64.615	110.207	1.00	14.39	N
ATOM	1736	CA	TRP	A	245	-1.068	65.168	111.111	1.00	13.88	C
ATOM	1737	C	TRP	A	245	-1.029	64.455	112.452	1.00	16.86	C
ATOM	1738	O	TRP	A	245	-0.912	65.091	113.506	1.00	20.50	O
ATOM	1739	CB	TRP	A	245	-2.457	65.056	110.493	1.00	17.62	C
ATOM	1740	CG	TRP	A	245	-3.462	65.705	111.336	1.00	34.54	C
ATOM	1741	CD1	TRP	A	245	-3.851	67.017	111.293	1.00	41.20	C
ATOM	1742	CD2	TRP	A	245	-4.130	65.118	112.458	1.00	31.61	C
ATOM	1743	NE1	TRP	A	245	-4.718	67.283	112.329	1.00	47.44	N
ATOM	1744	CE2	TRP	A	245	-4.905	66.135	113.060	1.00	34.63	C
ATOM	1745	CE3	TRP	A	245	-4.145	63.828	113.018	1.00	31.06	C
ATOM	1746	CZ2	TRP	A	245	-5.690	65.902	114.200	1.00	35.09	C
ATOM	1747	CZ3	TRP	A	245	-4.925	63.597	114.147	1.00	36.08	C
ATOM	1748	CH2	TRP	A	245	-5.686	64.630	114.726	1.00	37.13	C
ATOM	1749	N	THR	A	246	-1.136	63.134	112.415	1.00	17.45	N
ATOM	1750	CA	THR	A	246	-1.097	62.355	113.643	1.00	11.72	C
ATOM	1751	C	THR	A	246	0.267	62.518	114.309	1.00	13.47	C
ATOM	1752	O	THR	A	246	0.421	62.340	115.518	1.00	3.31	O
ATOM	1753	CB	THR	A	246	-1.366	60.889	113.348	1.00	13.70	C
ATOM	1754	OG1	THR	A	246	-2.734	60.607	113.651	1.00	22.35	O
ATOM	1755	CG2	THR	A	246	-0.450	59.992	114.151	1.00	23.59	C
ATOM	1756	N	SER	A	247	1.263	62.852	113.501	1.00	19.43	N
ATOM	1757	CA	SER	A	247	2.609	63.070	113.998	1.00	25.96	C
ATOM	1758	C	SER	A	247	2.572	64.327	114.873	1.00	31.04	C
ATOM	1759	O	SER	A	247	2.858	64.305	116.069	1.00	29.04	O
ATOM	1760	CB	SER	A	247	3.546	63.286	112.803	1.00	19.11	C
ATOM	1761	OG	SER	A	247	4.873	63.592	113.220	1.00	40.79	O
ATOM	1762	N	PHE	A	248	2.170	65.411	114.224	1.00	39.78	N
ATOM	1763	CA	PHE	A	248	2.066	66.757	114.772	1.00	45.15	C
ATOM	1764	C	PHE	A	248	0.957	66.960	115.792	1.00	39.54	C
ATOM	1765	O	PHE	A	248	0.544	68.087	116.041	1.00	44.71	O
ATOM	1766	CB	PHE	A	248	1.832	67.691	113.594	1.00	64.18	C
ATOM	1767	CG	PHE	A	248	2.090	69.126	113.879	1.00	77.73	C
ATOM	1768	CD1	PHE	A	248	3.376	69.573	114.137	1.00	86.07	C
ATOM	1769	CD2	PHE	A	248	1.056	70.049	113.788	1.00	80.31	C
ATOM	1770	CE1	PHE	A	248	3.630	70.924	114.298	1.00	92.63	C
ATOM	1771	CE2	PHE	A	248	1.291	71.400	113.946	1.00	84.15	C
ATOM	1772	CZ	PHE	A	248	2.582	71.844	114.195	1.00	93.81	C
ATOM	1773	N	ASN	A	249	0.478	65.888	116.401	1.00	35.73	N
ATOM	1774	CA	ASN	A	249	-0.611	66.033	117.355	1.00	34.50	C
ATOM	1775	C	ASN	A	249	-0.607	65.054	118.504	1.00	40.42	C
ATOM	1776	O	ASN	A	249	-1.376	65.203	119.445	1.00	42.06	O
ATOM	1777	CB	ASN	A	249	-1.944	65.922	116.633	1.00	25.27	C
ATOM	1778	CG	ASN	A	249	-2.435	67.247	116.144	1.00	27.53	C
ATOM	1779	OD1	ASN	A	249	-2.504	68.208	116.914	1.00	34.54	O
ATOM	1780	ND2	ASN	A	249	-2.782	67.321	114.863	1.00	23.24	N
ATOM	1781	N	GLN	A	250	0.256	64.053	118.429	1.00	43.93	N
ATOM	1782	CA	GLN	A	250	0.338	63.047	119.472	1.00	45.21	C
ATOM	1783	C	GLN	A	250	0.044	63.578	120.876	1.00	45.89	C
ATOM	1784	O	GLN	A	250	-0.597	62.894	121.674	1.00	46.33	C
ATOM	1785	CB	GLN	A	250	1.710	62.376	119.429	1.00	49.33	C
ATOM	1786	CG	GLN	A	250	2.754	63.146	118.653	1.00	56.41	C
ATOM	1787	CD	GLN	A	250	3.999	62.330	118.422	1.00	67.52	C
ATOM	1788	OE1	GLN	A	250	3.934	61.222	117.884	1.00	64.03	O
ATOM	1789	NE2	GLN	A	250	5.145	62.868	118.826	1.00	73.52	N
ATOM	1790	N	GLU	A	251	0.497	64.795	121.176	1.00	46.19	N
ATOM	1791	CA	GLU	A	251	0.255	65.388	122.490	1.00	53.10	C
ATOM	1792	C	GLU	A	251	-1.149	65.079	122.981	1.00	55.27	C
ATOM	1793	O	GLU	A	251	-1.327	64.466	124.031	1.00	63.00	O
ATOM	1794	CB	GLU	A	251	0.433	66.908	122.450	1.00	61.86	C
ATOM	1795	CG	GLU	A	251	1.837	67.380	122.738	1.00	77.46	C
ATOM	1796	CD	GLU	A	251	2.837	66.851	121.742	1.00	89.72	C
ATOM	1797	OE1	GLU	A	251	3.019	65.618	121.679	1.00	97.55	O
ATOM	1798	OE2	GLU	A	251	3.443	67.666	121.017	1.00	95.81	O
ATOM	1799	N	ARG	A	252	-2.143	65.490	122.201	1.00	50.90	N
ATOM	1800	CA	ARG	A	252	-3.541	65.290	122.567	1.00	50.56	C
ATOM	1801	C	ARG	A	252	-4.116	63.899	122.362	1.00	46.98	C
ATOM	1802	O	ARG	A	252	-4.856	63.400	123.215	1.00	53.85	O
ATOM	1803	CB	ARG	A	252	-4.435	66.261	121.806	1.00	57.95	C
ATOM	1804	CG	ARG	A	252	-4.082	67.703	121.974	1.00	73.90	C
ATOM	1805	CD	ARG	A	252	-5.043	68.562	121.193	1.00	91.08	C
ATOM	1806	CE	ARG	A	252	-4.553	69.929	121.068	1.00	109.12	N
ATOM	1807	CZ	ARG	A	252	-3.422	70.266	120.452	1.00	117.35	C
ATOM	1808	NH1	ARG	A	252	-2.652	69.335	119.898	1.00	121.60	N

ATOM	1809	NH2	ARG	A	252	-3.056	71.540	120.391	1.00	122.11	N
ATOM	1810	N	ILE	A	253	-3.789	63.271	121.240	1.00	34.95	N
ATOM	1811	CA	ILE	A	253	-4.349	61.967	120.939	1.00	26.82	C
ATOM	1812	C	ILE	A	253	-3.613	60.720	121.402	1.00	34.17	C
ATOM	1813	O	ILE	A	253	-4.170	59.911	122.146	1.00	35.29	O
ATOM	1814	CB	ILE	A	253	-4.590	61.847	119.447	1.00	12.97	C
ATOM	1815	CG1	ILE	A	253	-3.310	62.193	118.687	1.00	3.31	C
ATOM	1816	CG2	ILE	A	253	-5.712	62.764	119.039	1.00	24.79	C
ATOM	1817	CD1	ILE	A	253	-3.460	62.075	117.175	1.00	14.82	C
ATOM	1818	N	VAL	A	254	-2.374	60.561	120.949	1.00	42.48	N
ATOM	1819	CA	VAL	A	254	-1.559	59.392	121.286	1.00	51.32	C
ATOM	1820	C	VAL	A	254	-1.798	58.828	122.688	1.00	53.95	C
ATOM	1821	O	VAL	A	254	-1.683	57.621	122.922	1.00	55.92	O
ATOM	1822	CB	VAL	A	254	-0.049	59.709	121.164	1.00	49.29	C
ATOM	1823	CG1	VAL	A	254	0.465	60.386	122.444	1.00	52.01	C
ATOM	1824	CG2	VAL	A	254	0.717	58.427	120.872	1.00	50.05	C
ATOM	1825	N	ASP	A	255	-2.136	59.721	123.609	1.00	56.09	N
ATOM	1826	CA	ASP	A	255	-2.362	59.387	125.010	1.00	63.32	C
ATOM	1827	C	ASP	A	255	-3.674	58.653	125.344	1.00	58.30	C
ATOM	1828	O	ASP	A	255	-3.650	57.535	125.865	1.00	61.53	O
ATOM	1829	CB	ASP	A	255	-2.273	60.672	125.834	1.00	81.31	C
ATOM	1830	CG	ASP	A	255	-1.609	60.459	127.163	1.00	92.58	C
ATOM	1831	OD1	ASP	A	255	-1.664	61.381	128.007	1.00	103.11	O
ATOM	1832	OD2	ASP	A	255	-1.028	59.369	127.355	1.00	95.27	O
ATOM	1833	N	VAL	A	256	-4.810	59.289	125.060	1.00	47.34	N
ATOM	1834	CA	VAL	A	256	-6.124	58.717	125.339	1.00	26.26	C
ATOM	1835	C	VAL	A	256	-6.393	57.401	124.612	1.00	20.16	C
ATOM	1836	O	VAL	A	256	-7.515	56.896	124.638	1.00	21.60	O
ATOM	1837	CB	VAL	A	256	-7.236	59.711	124.966	1.00	17.99	C
ATOM	1838	CG1	VAL	A	256	-7.333	60.796	126.003	1.00	15.54	C
ATOM	1839	CG2	VAL	A	256	-6.943	60.329	123.608	1.00	11.70	C
ATOM	1840	N	ALA	A	257	-5.365	56.852	123.968	1.00	21.31	N
ATOM	1841	CA	ALA	A	257	-5.478	55.595	123.238	1.00	24.74	C
ATOM	1842	C	ALA	A	257	-5.261	54.380	124.143	1.00	28.46	C
ATOM	1843	O	ALA	A	257	-4.374	54.370	125.000	1.00	34.08	O
ATOM	1844	CB	ALA	A	257	-4.477	55.578	122.112	1.00	30.69	C
ATOM	1845	N	GLY	A	258	-6.071	53.350	123.935	1.00	27.17	N
ATOM	1846	CA	GLY	A	258	-5.958	52.144	124.731	1.00	34.38	C
ATOM	1847	C	GLY	A	258	-7.229	51.337	124.602	1.00	39.07	C
ATOM	1848	O	GLY	A	258	-8.186	51.801	123.994	1.00	46.72	O
ATOM	1849	N	PRO	A	259	-7.274	50.128	125.164	1.00	41.39	N
ATOM	1850	CA	PRO	A	259	-8.450	49.260	125.103	1.00	37.99	C
ATOM	1851	C	PRO	A	259	-9.781	49.981	125.261	1.00	38.04	C
ATOM	1852	O	PRO	A	259	-9.930	50.841	126.124	1.00	37.32	O
ATOM	1853	CB	PRO	A	259	-8.191	48.278	126.230	1.00	41.03	C
ATOM	1854	CG	PRO	A	259	-6.731	48.076	126.112	1.00	44.48	C
ATOM	1855	CD	PRO	A	259	-6.202	49.488	125.940	1.00	47.07	C
ATOM	1856	N	GLY	A	260	-10.749	49.619	124.424	1.00	37.51	N
ATOM	1857	CA	GLY	A	260	-12.057	50.237	124.500	1.00	33.17	C
ATOM	1858	C	GLY	A	260	-12.173	51.413	123.560	1.00	28.52	C
ATOM	1859	O	GLY	A	260	-13.188	51.577	122.896	1.00	17.08	O
ATOM	1860	N	GLY	A	261	-11.132	52.235	123.511	1.00	34.58	N
ATOM	1861	CA	GLY	A	261	-11.138	53.391	122.631	1.00	44.49	C
ATOM	1862	C	GLY	A	261	-9.848	53.579	121.840	1.00	42.98	C
ATOM	1863	O	GLY	A	261	-8.758	53.595	122.411	1.00	51.16	O
ATOM	1864	N	TRP	A	262	-9.961	53.747	120.526	1.00	34.48	N
ATOM	1865	CA	TRP	A	262	-8.775	53.919	119.692	1.00	28.58	C
ATOM	1866	C	TRP	A	262	-8.810	55.116	118.761	1.00	17.38	C
ATOM	1867	O	TRP	A	262	-9.877	55.618	118.407	1.00	6.05	O
ATOM	1868	CB	TRP	A	262	-8.559	52.702	118.809	1.00	35.71	C
ATOM	1869	CG	TRP	A	262	-8.723	51.423	119.495	1.00	32.13	C
ATOM	1870	CD1	TRP	A	262	-9.808	50.607	119.450	1.00	31.26	C
ATOM	1871	CD2	TRP	A	262	-7.760	50.772	120.315	1.00	39.87	C
ATOM	1872	NE1	TRP	A	262	-9.582	49.477	120.192	1.00	37.75	N
ATOM	1873	CE2	TRP	A	262	-8.330	49.555	120.737	1.00	43.01	C
ATOM	1874	CE3	TRP	A	262	-6.471	51.101	120.742	1.00	46.70	C
ATOM	1875	CZ2	TRP	A	262	-7.653	48.658	121.557	1.00	57.69	C
ATOM	1876	CZ3	TRP	A	262	-5.796	50.208	121.562	1.00	57.75	C
ATOM	1877	CH2	TRP	A	262	-6.391	49.001	121.962	1.00	65.10	C
ATOM	1878	N	ASN	A	263	-7.625	55.565	118.360	1.00	10.39	N
ATOM	1879	CA	ASN	A	263	-7.521	56.658	117.409	1.00	18.03	C
ATOM	1880	C	ASN	A	263	-7.642	56.011	116.036	1.00	18.47	C
ATOM	1881	O	ASN	A	263	-6.921	55.067	115.722	1.00	26.57	O
ATOM	1882	CB	ASN	A	263	-6.182	57.359	117.545	1.00	23.92	C
ATOM	1883	CG	ASN	A	263	-6.251	58.536	118.460	1.00	21.75	C
ATOM	1884	OD1	ASN	A	263	-7.115	59.401	118.317	1.00	20.11	O
ATOM	1885	ND2	ASN	A	263	-5.332	58.595	119.399	1.00	16.20	N
ATOM	1886	N	ASP	A	264	-8.555	56.518	115.222	1.00	8.32	N
ATOM	1887	CA	ASP	A	264	-8.798	55.943	113.901	1.00	12.59	C

ATOM	1888	C	ASP	A	264	-8.518	56.863	112.695	1.00	11.85	C
ATOM	1889	O	ASP	A	264	-9.276	57.803	112.412	1.00	3.31	O
ATOM	1890	CB	ASP	A	264	-10.237	55.405	113.881	1.00	25.66	C
ATOM	1891	CG	ASP	A	264	-10.832	55.318	112.491	1.00	27.20	C
ATOM	1892	OD1	ASP	A	264	-10.208	54.724	111.574	1.00	15.35	O
ATOM	1893	OD2	ASP	A	264	-11.957	55.849	112.336	1.00	41.23	O
ATOM	1894	N	PRO	A	265	-7.413	56.582	111.965	1.00	15.34	N
ATOM	1895	CA	PRO	A	265	-6.863	57.251	110.771	1.00	23.99	C
ATOM	1896	C	PRO	A	265	-7.803	57.195	109.577	1.00	28.89	C
ATOM	1897	O	PRO	A	265	-8.107	58.216	108.945	1.00	35.15	O
ATOM	1898	CB	PRO	A	265	-5.579	56.467	110.495	1.00	17.45	C
ATOM	1899	CG	PRO	A	265	-5.192	55.950	111.859	1.00	24.86	C
ATOM	1900	CD	PRO	A	265	-6.517	55.493	112.391	1.00	17.31	C
ATOM	1901	N	ASP	A	266	-8.207	55.963	109.272	1.00	35.35	N
ATOM	1902	CA	ASP	A	266	-9.136	55.614	108.202	1.00	41.09	C
ATOM	1903	C	ASP	A	266	-8.830	54.255	107.598	1.00	38.83	C
ATOM	1904	O	ASP	A	266	-7.910	53.551	108.015	1.00	36.66	O
ATOM	1905	CB	ASP	A	266	-9.162	56.664	107.092	1.00	45.23	C
ATOM	1906	CG	ASP	A	266	-10.562	56.884	106.559	1.00	47.07	C
ATOM	1907	OD1	ASP	A	266	-11.405	55.997	106.792	1.00	48.02	O
ATOM	1908	OD2	ASP	A	266	-10.830	57.927	105.920	1.00	46.64	O
ATOM	1909	N	MET	A	267	-9.619	53.896	106.604	1.00	36.60	N
ATOM	1910	CA	MET	A	267	-9.475	52.620	105.944	1.00	34.79	C
ATOM	1911	C	MET	A	267	-8.076	52.362	105.395	1.00	27.72	C
ATOM	1912	O	MET	A	267	-7.257	53.273	105.275	1.00	17.95	O
ATOM	1913	CB	MET	A	267	-10.510	52.533	104.828	1.00	37.05	C
ATOM	1914	CG	MET	A	267	-11.920	52.734	105.337	1.00	38.73	C
ATOM	1915	SD	MET	A	267	-13.059	53.352	104.118	1.00	59.81	S
ATOM	1916	CE	MET	A	267	-12.830	55.134	104.314	1.00	67.70	C
ATOM	1917	N	LEU	A	268	-7.816	51.092	105.103	1.00	26.33	N
ATOM	1918	CA	LEU	A	268	-6.560	50.641	104.530	1.00	23.79	C
ATOM	1919	C	LEU	A	268	-6.809	50.534	103.027	1.00	27.33	C
ATOM	1920	O	LEU	A	268	-7.592	49.700	102.572	1.00	36.49	O
ATOM	1921	CB	LEU	A	268	-6.169	49.276	105.097	1.00	19.73	C
ATOM	1922	CG	LEU	A	268	-5.596	49.297	106.516	1.00	23.04	C
ATOM	1923	CD1	LEU	A	268	-5.216	47.897	106.948	1.00	21.67	C
ATOM	1924	CD2	LEU	A	268	-4.380	50.189	106.550	1.00	25.62	C
ATOM	1925	N	VAL	A	269	-6.151	51.390	102.256	1.00	27.46	N
ATOM	1926	CA	VAL	A	269	-6.334	51.398	100.813	1.00	33.63	C
ATOM	1927	C	VAL	A	269	-5.350	50.494	100.097	1.00	33.62	C
ATOM	1928	O	VAL	A	269	-5.174	50.597	98.880	1.00	44.00	O
ATOM	1929	CB	VAL	A	269	-6.190	52.806	100.274	1.00	36.44	C
ATOM	1930	CG1	VAL	A	269	-7.094	53.737	101.067	1.00	45.39	C
ATOM	1931	CG2	VAL	A	269	-4.737	53.255	100.379	1.00	45.21	C
ATOM	1932	N	ILE	A	270	-4.702	49.616	100.864	1.00	29.66	N
ATOM	1933	CA	ILE	A	270	-3.735	48.663	100.309	1.00	30.37	C
ATOM	1934	C	ILE	A	270	-4.487	47.621	99.458	1.00	33.11	C
ATOM	1935	O	ILE	A	270	-5.477	47.038	99.916	1.00	31.89	O
ATOM	1936	CB	ILE	A	270	-2.956	47.944	101.446	1.00	27.69	C
ATOM	1937	CG1	ILE	A	270	-2.044	48.936	102.162	1.00	43.55	C
ATOM	1938	CG2	ILE	A	270	-2.106	46.825	100.888	1.00	29.54	C
ATOM	1939	CD1	ILE	A	270	-1.483	48.423	103.479	1.00	41.14	C
ATOM	1940	N	GLY	A	271	-4.026	47.387	98.231	1.00	37.10	N
ATOM	1941	CA	GLY	A	271	-4.697	46.416	97.381	1.00	42.05	C
ATOM	1942	C	GLY	A	271	-5.414	47.078	96.219	1.00	45.94	C
ATOM	1943	O	GLY	A	271	-5.978	46.417	95.342	1.00	46.95	O
ATOM	1944	N	ASN	A	272	-5.395	48.405	96.232	1.00	49.29	N
ATOM	1945	CA	ASN	A	272	-6.013	49.196	95.189	1.00	50.77	C
ATOM	1946	C	ASN	A	272	-4.955	49.544	94.169	1.00	54.19	C
ATOM	1947	O	ASN	A	272	-4.165	48.688	93.795	1.00	62.17	O
ATOM	1948	CB	ASN	A	272	-6.616	50.463	95.774	1.00	57.02	C
ATOM	1949	CG	ASN	A	272	-7.937	50.208	96.456	1.00	64.75	C
ATOM	1950	OD1	ASN	A	272	-8.078	49.269	97.245	1.00	70.55	O
ATOM	1951	ND2	ASN	A	272	-8.920	51.048	96.156	1.00	65.78	N
ATOM	1952	N	PHE	A	273	-4.906	50.803	93.746	1.00	57.71	N
ATOM	1953	CA	PHE	A	273	-3.961	51.221	92.706	1.00	60.84	C
ATOM	1954	C	PHE	A	273	-3.119	52.455	92.989	1.00	59.50	C
ATOM	1955	O	PHE	A	273	-2.030	52.593	92.439	1.00	61.91	O
ATOM	1956	CB	PHE	A	273	-4.712	51.464	91.391	1.00	60.01	C
ATOM	1957	CG	PHE	A	273	-6.185	51.147	91.462	1.00	59.22	C
ATOM	1958	CD1	PHE	A	273	-6.766	50.281	90.534	1.00	54.75	C
ATOM	1959	CD2	PHE	A	273	-6.985	51.679	92.475	1.00	58.02	C
ATOM	1960	CE1	PHE	A	273	-8.124	49.943	90.615	1.00	51.25	C
ATOM	1961	CE2	PHE	A	273	-8.336	51.354	92.573	1.00	58.47	C
ATOM	1962	CZ	PHE	A	273	-8.909	50.481	91.642	1.00	55.69	C
ATOM	1963	N	GLY	A	274	-3.624	53.348	93.836	1.00	55.05	N
ATOM	1964	CA	GLY	A	274	-2.914	54.580	94.139	1.00	44.40	C
ATOM	1965	C	GLY	A	274	-1.577	54.444	94.829	1.00	39.16	C
ATOM	1966	O	GLY	A	274	-0.753	55.362	94.769	1.00	47.25	O

ATOM	1967	N	LEU	A	275	-1.344	53.307	95.475	1.00	28.25	N
ATOM	1968	CA	LEU	A	275	-0.091	53.116	96.183	1.00	27.58	C
ATOM	1969	C	LEU	A	275	0.928	52.199	95.542	1.00	32.09	C
ATOM	1970	O	LEU	A	275	0.601	51.154	94.977	1.00	42.20	C
ATOM	1971	CB	LEU	A	275	-0.360	52.640	97.609	1.00	16.36	C
ATOM	1972	CG	LEU	A	275	-1.250	53.577	98.419	1.00	5.93	C
ATOM	1973	CD1	LEU	A	275	-1.093	53.240	99.888	1.00	3.31	C
ATOM	1974	CD2	LEU	A	275	-0.864	55.035	98.151	1.00	3.31	C
ATOM	1975	N	SER	A	276	2.180	52.628	95.646	1.00	29.50	N
ATOM	1976	CA	SER	A	276	3.314	51.881	95.136	1.00	36.25	C
ATOM	1977	C	SER	A	276	3.451	50.735	96.104	1.00	35.37	C
ATOM	1978	O	SER	A	276	2.738	50.677	97.100	1.00	27.12	O
ATOM	1979	CB	SER	A	276	4.594	52.712	95.219	1.00	46.24	C
ATOM	1980	OG	SER	A	276	5.122	52.704	96.541	1.00	42.54	O
ATOM	1981	N	TRP	A	277	4.371	49.826	95.833	1.00	37.28	N
ATOM	1982	CA	TRP	A	277	4.540	48.740	96.762	1.00	32.97	C
ATOM	1983	C	TRP	A	277	5.008	49.364	98.048	1.00	27.84	C
ATOM	1984	O	TRP	A	277	4.267	49.420	99.028	1.00	25.18	O
ATOM	1985	CB	TRP	A	277	5.586	47.736	96.292	1.00	44.35	C
ATOM	1986	CG	TRP	A	277	5.823	46.671	97.324	1.00	45.64	C
ATOM	1987	CD1	TRP	A	277	7.004	46.389	97.961	1.00	49.91	C
ATOM	1988	CD2	TRP	A	277	4.839	45.797	97.898	1.00	45.05	C
ATOM	1989	NE1	TRP	A	277	6.815	45.398	98.898	1.00	47.99	N
ATOM	1990	CE2	TRP	A	277	5.496	45.016	98.884	1.00	44.93	C
ATOM	1991	CE3	TRP	A	277	3.465	45.599	97.680	1.00	43.84	C
ATOM	1992	CZ2	TRP	A	277	4.820	44.047	99.657	1.00	41.10	C
ATOM	1993	CZ3	TRP	A	277	2.793	44.637	98.447	1.00	38.42	C
ATOM	1994	CH2	TRP	A	277	3.474	43.875	99.424	1.00	38.38	C
ATOM	1995	N	ASN	A	278	6.237	49.862	98.042	1.00	27.92	N
ATOM	1996	CA	ASN	A	278	6.792	50.454	99.252	1.00	33.66	C
ATOM	1997	C	ASN	A	278	5.887	51.473	99.939	1.00	36.34	C
ATOM	1998	O	ASN	A	278	6.108	51.821	101.096	1.00	40.73	O
ATOM	1999	CB	ASN	A	278	8.169	51.051	98.967	1.00	29.87	C
ATOM	2000	CG	ASN	A	278	9.234	49.986	98.822	1.00	31.51	C
ATOM	2001	OD1	ASN	A	278	9.542	49.270	99.778	1.00	31.53	O
ATOM	2002	ND2	ASN	A	278	9.791	49.862	97.618	1.00	36.12	N
ATOM	2003	N	GLN	A	279	4.869	51.957	99.238	1.00	35.96	N
ATOM	2004	CA	GLN	A	279	3.945	52.880	99.868	1.00	29.77	C
ATOM	2005	C	GLN	A	279	2.915	52.083	100.678	1.00	26.47	C
ATOM	2006	O	GLN	A	279	2.468	52.521	101.732	1.00	16.00	O
ATOM	2007	CB	GLN	A	279	3.267	53.743	98.810	1.00	27.43	C
ATOM	2008	CG	GLN	A	279	4.137	54.893	98.349	1.00	28.81	C
ATOM	2009	CD	GLN	A	279	3.737	55.417	96.991	1.00	34.90	C
ATOM	2010	OE1	GLN	A	279	2.550	55.562	96.694	1.00	40.75	O
ATOM	2011	NE2	GLN	A	279	4.727	55.712	96.155	1.00	39.37	N
ATOM	2012	N	GLN	A	280	2.567	50.897	100.196	1.00	30.38	N
ATOM	2013	CA	GLN	A	280	1.595	50.068	100.881	1.00	30.96	C
ATOM	2014	C	GLN	A	280	2.139	49.546	102.189	1.00	30.35	C
ATOM	2015	O	GLN	A	280	1.480	49.670	103.228	1.00	33.06	O
ATOM	2016	CB	GLN	A	280	1.164	48.895	99.999	1.00	31.33	C
ATOM	2017	CG	GLN	A	280	0.561	49.312	98.661	1.00	36.80	C
ATOM	2018	CD	GLN	A	280	-0.063	48.156	97.897	1.00	37.60	C
ATOM	2019	OE1	GLN	A	280	-1.090	47.615	98.297	1.00	38.74	O
ATOM	2020	NE2	GLN	A	280	0.561	47.772	96.793	1.00	34.63	N
ATOM	2021	N	VAL	A	281	3.333	48.961	102.162	1.00	31.13	N
ATOM	2022	CA	VAL	A	281	3.900	48.432	103.406	1.00	35.92	C
ATOM	2023	C	VAL	A	281	3.877	49.529	104.449	1.00	33.94	C
ATOM	2024	O	VAL	A	281	3.578	49.294	105.614	1.00	31.74	O
ATOM	2025	CB	VAL	A	281	5.356	47.938	103.238	1.00	34.38	C
ATOM	2026	CG1	VAL	A	281	5.456	47.074	102.012	1.00	34.63	C
ATOM	2027	CG2	VAL	A	281	6.313	49.110	103.162	1.00	42.38	C
ATOM	2028	N	THR	A	282	4.172	50.743	104.008	1.00	31.90	N
ATOM	2029	CA	THR	A	282	4.186	51.886	104.902	1.00	27.13	C
ATOM	2030	C	THR	A	282	2.872	52.024	105.671	1.00	26.03	C
ATOM	2031	O	THR	A	282	2.867	51.968	106.898	1.00	28.72	O
ATOM	2032	CB	THR	A	282	4.444	53.188	104.122	1.00	26.85	C
ATOM	2033	OG1	THR	A	282	5.592	53.021	103.280	1.00	31.54	C
ATOM	2034	CG2	THR	A	282	4.685	54.340	105.085	1.00	20.56	C
ATOM	2035	N	GLN	A	283	1.760	52.190	104.956	1.00	18.46	N
ATOM	2036	CA	GLN	A	283	0.477	52.342	105.627	1.00	18.53	C
ATOM	2037	C	GLN	A	283	0.276	51.212	106.605	1.00	18.82	C
ATOM	2038	O	GLN	A	283	0.014	51.439	107.791	1.00	21.00	O
ATOM	2039	CB	GLN	A	283	-0.703	52.343	104.654	1.00	15.63	C
ATOM	2040	CG	GLN	A	283	-2.056	52.418	105.397	1.00	19.59	C
ATOM	2041	CD	GLN	A	283	-3.291	52.386	104.495	1.00	27.53	C
ATOM	2042	OE1	GLN	A	283	-3.497	51.435	103.741	1.00	31.55	O
ATOM	2043	NE2	GLN	A	283	-4.128	53.421	104.587	1.00	35.44	N
ATOM	2044	N	MET	A	284	0.400	49.987	106.111	1.00	3.31	N
ATOM	2045	CA	MET	A	284	0.215	48.833	106.974	1.00	3.31	C

ATOM	2046	C	MET	A	284	1.130	48.904	108.180	1.00	3.31	C
ATOM	2047	O	MET	A	284	0.679	48.769	109.307	1.00	7.85	O
ATOM	2048	CB	MET	A	284	0.488	47.552	106.203	1.00	8.74	C
ATOM	2049	CG	MET	A	284	0.192	46.278	106.980	1.00	6.90	C
ATOM	2050	SD	MET	A	284	-1.576	45.915	107.116	1.00	16.54	S
ATOM	2051	CE	MET	A	284	-1.805	46.136	108.956	1.00	6.72	C
ATOM	2052	N	ALA	A	285	2.417	49.120	107.944	1.00	4.64	N
ATOM	2053	CA	ALA	A	285	3.375	49.193	109.041	1.00	11.01	C
ATOM	2054	C	ALA	A	285	2.964	50.228	110.059	1.00	13.01	C
ATOM	2055	O	ALA	A	285	2.950	49.959	111.261	1.00	14.68	O
ATOM	2056	CB	ALA	A	285	4.755	49.530	108.521	1.00	19.24	C
ATOM	2057	N	LEU	A	286	2.629	51.419	109.585	1.00	11.37	N
ATOM	2058	CA	LEU	A	286	2.247	52.471	110.500	1.00	14.05	C
ATOM	2059	C	LEU	A	286	0.879	52.342	111.166	1.00	17.26	C
ATOM	2060	O	LEU	A	286	0.731	52.755	112.321	1.00	15.35	O
ATOM	2061	CB	LEU	A	286	2.436	53.826	109.826	1.00	8.12	C
ATOM	2062	CG	LEU	A	286	3.916	54.187	109.997	1.00	7.08	C
ATOM	2063	CD1	LEU	A	286	4.412	54.888	108.795	1.00	9.40	C
ATOM	2064	CD2	LEU	A	286	4.116	55.041	111.246	1.00	3.31	C
ATOM	2065	N	TRP	A	287	-0.119	51.774	110.491	1.00	17.25	N
ATOM	2066	CA	TRP	A	287	-1.405	51.613	111.168	1.00	29.47	C
ATOM	2067	C	TRP	A	287	-1.166	50.692	112.360	1.00	31.64	C
ATOM	2068	O	TRP	A	287	-1.783	50.850	113.419	1.00	33.74	O
ATOM	2069	CB	TRP	A	287	-2.459	50.998	110.256	1.00	33.70	C
ATOM	2070	CG	TRP	A	287	-3.358	52.007	109.618	1.00	39.21	C
ATOM	2071	CD1	TRP	A	287	-4.717	51.949	109.526	1.00	47.57	C
ATOM	2072	CD2	TRP	A	287	-2.966	53.217	108.969	1.00	36.94	C
ATOM	2073	NE1	TRP	A	287	-5.197	53.046	108.861	1.00	51.26	N
ATOM	2074	CE2	TRP	A	287	-4.144	53.841	108.509	1.00	40.64	C
ATOM	2075	CE3	TRP	A	287	-1.732	53.834	108.730	1.00	39.12	C
ATOM	2076	CZ2	TRP	A	287	-4.126	55.056	107.823	1.00	40.95	C
ATOM	2077	CZ3	TRP	A	287	-1.715	55.047	108.043	1.00	37.09	C
ATOM	2078	CH2	TRP	A	287	-2.908	55.643	107.599	1.00	35.17	C
ATOM	2079	N	ALA	A	288	-0.257	49.740	112.178	1.00	26.74	N
ATOM	2080	CA	ALA	A	288	0.097	48.809	113.235	1.00	26.87	C
ATOM	2081	C	ALA	A	288	0.749	49.570	114.388	1.00	29.10	C
ATOM	2082	O	ALA	A	288	0.472	49.296	115.560	1.00	29.38	O
ATOM	2083	CB	ALA	A	288	1.048	47.755	112.706	1.00	25.97	C
ATOM	2084	N	ILE	A	289	1.616	50.525	114.059	1.00	26.15	N
ATOM	2085	CA	ILE	A	289	2.290	51.310	115.089	1.00	21.64	C
ATOM	2086	C	ILE	A	289	1.299	52.166	115.840	1.00	21.16	C
ATOM	2087	O	ILE	A	289	1.436	52.349	117.045	1.00	18.99	O
ATOM	2088	CB	ILE	A	289	3.339	52.254	114.507	1.00	20.59	C
ATOM	2089	CG1	ILE	A	289	4.512	51.441	113.947	1.00	17.18	C
ATOM	2090	CG2	ILE	A	289	3.808	53.233	115.593	1.00	29.08	C
ATOM	2091	CD1	ILE	A	289	5.332	50.768	115.030	1.00	17.70	C
ATOM	2092	N	MET	A	290	0.299	52.683	115.128	1.00	23.88	N
ATOM	2093	CA	MET	A	290	-0.715	53.550	115.734	1.00	30.50	C
ATOM	2094	C	MET	A	290	-1.986	52.847	116.198	1.00	30.09	C
ATOM	2095	O	MET	A	290	-3.072	53.425	116.084	1.00	35.20	O
ATOM	2096	CB	MET	A	290	-1.134	54.643	114.755	1.00	32.03	C
ATOM	2097	CG	MET	A	290	-0.012	55.363	114.077	1.00	39.82	C
ATOM	2098	SD	MET	A	290	-0.757	56.559	113.005	1.00	26.07	S
ATOM	2099	CE	MET	A	290	-1.038	55.555	111.564	1.00	23.83	C
ATOM	2100	N	ALA	A	291	-1.858	51.631	116.725	1.00	30.09	N
ATOM	2101	CA	ALA	A	291	-3.019	50.884	117.187	1.00	31.39	C
ATOM	2102	C	ALA	A	291	-4.246	51.539	116.582	1.00	32.14	C
ATOM	2103	O	ALA	A	291	-5.031	52.191	117.271	1.00	25.20	O
ATOM	2104	CB	ALA	A	291	-3.096	50.916	118.700	1.00	34.14	C
ATOM	2105	N	ALA	A	292	-4.367	51.410	115.269	1.00	33.73	N
ATOM	2106	CA	ALA	A	292	-5.487	51.998	114.554	1.00	36.12	C
ATOM	2107	C	ALA	A	292	-6.433	50.912	114.096	1.00	30.80	C
ATOM	2108	O	ALA	A	292	-6.022	49.769	113.869	1.00	32.69	O
ATOM	2109	CB	ALA	A	292	-4.986	52.785	113.346	1.00	46.22	C
ATOM	2110	N	PRO	A	293	-7.720	51.250	113.951	1.00	28.94	N
ATOM	2111	CA	PRO	A	293	-8.632	50.202	113.506	1.00	24.30	C
ATOM	2112	C	PRO	A	293	-8.208	49.776	112.092	1.00	15.99	C
ATOM	2113	O	PRO	A	293	-7.829	50.617	111.265	1.00	15.74	O
ATOM	2114	CB	PRO	A	293	-9.994	50.899	113.527	1.00	26.38	C
ATOM	2115	CG	PRO	A	293	-9.814	52.021	114.504	1.00	34.28	C
ATOM	2116	CD	PRO	A	293	-8.436	52.516	114.177	1.00	29.52	C
ATOM	2117	N	LEU	A	294	-8.262	48.475	111.824	1.00	19.73	N
ATOM	2118	CA	LEU	A	294	-7.890	47.958	110.510	1.00	26.53	C
ATOM	2119	C	LEU	A	294	-9.101	47.695	109.638	1.00	22.11	C
ATOM	2120	O	LEU	A	294	-9.781	46.675	109.795	1.00	22.16	O
ATOM	2121	CB	LEU	A	294	-7.091	46.666	110.654	1.00	33.64	C
ATOM	2122	CG	LEU	A	294	-5.896	46.869	111.584	1.00	32.51	C
ATOM	2123	CD1	LEU	A	294	-5.175	45.550	111.775	1.00	39.27	C
ATOM	2124	CD2	LEU	A	294	-4.966	47.929	111.011	1.00	38.99	C



ATOM	2125	N	PHE	A	295	-9.380	48.626	108.734	1.00	15.76	N
ATOM	2126	CA	PHE	A	295	-10.496	48.461	107.826	1.00	22.79	C
ATOM	2127	C	PHE	A	295	-10.057	48.611	106.398	1.00	21.95	C
ATOM	2128	O	PHE	A	295	-9.621	49.684	105.978	1.00	33.01	O
ATOM	2129	CB	PHE	A	295	-11.591	49.461	108.128	1.00	34.79	C
ATOM	2130	CG	PHE	A	295	-12.427	49.066	109.284	1.00	37.92	C
ATOM	2131	CD1	PHE	A	295	-11.858	48.912	110.538	1.00	41.65	C
ATOM	2132	CD2	PHE	A	295	-13.779	48.796	109.120	1.00	38.93	C
ATOM	2133	CE1	PHE	A	295	-12.623	48.488	111.617	1.00	41.88	C
ATOM	2134	CE2	PHE	A	295	-14.557	48.373	110.192	1.00	43.07	C
ATOM	2135	CZ	PHE	A	295	-13.976	48.219	111.446	1.00	41.57	C
ATOM	2136	N	MET	A	296	-10.157	47.526	105.647	1.00	16.43	N
ATOM	2137	CA	MET	A	296	-9.772	47.568	104.264	1.00	20.20	C
ATOM	2138	C	MET	A	296	-10.900	48.240	103.506	1.00	24.39	C
ATOM	2139	O	MET	A	296	-12.021	48.359	104.008	1.00	27.05	O
ATOM	2140	CB	MET	A	296	-9.584	46.158	103.740	1.00	19.92	C
ATOM	2141	CG	MET	A	296	-8.577	45.336	104.497	1.00	34.51	C
ATOM	2142	SD	MET	A	296	-8.572	43.657	103.898	1.00	39.83	S
ATOM	2143	CE	MET	A	296	-9.951	42.993	104.798	1.00	45.94	C
ATOM	2144	N	SER	A	297	-10.578	48.703	102.308	1.00	27.42	N
ATOM	2145	CA	SER	A	297	-11.539	49.327	101.435	1.00	25.61	C
ATOM	2146	C	SER	A	297	-10.968	48.931	100.097	1.00	25.82	C
ATOM	2147	O	SER	A	297	-10.318	49.718	99.404	1.00	20.60	O
ATOM	2148	CB	SER	A	297	-11.530	50.840	101.585	1.00	34.64	C
ATOM	2149	OG	SER	A	297	-12.538	51.408	100.771	1.00	33.54	O
ATOM	2150	N	ASN	A	298	-11.179	47.673	99.753	1.00	31.94	N
ATOM	2151	CA	ASN	A	298	-10.675	47.144	98.504	1.00	37.75	C
ATOM	2152	C	ASN	A	298	-11.640	46.084	98.022	1.00	39.05	C
ATOM	2153	O	ASN	A	298	-12.508	45.647	98.771	1.00	40.73	O
ATOM	2154	CB	ASN	A	298	-9.292	46.534	98.730	1.00	41.55	C
ATOM	2155	CG	ASN	A	298	-9.217	45.733	100.025	1.00	41.53	C
ATOM	2156	OD1	ASN	A	298	-9.945	44.764	100.207	1.00	44.50	O
ATOM	2157	ND2	ASN	A	298	-8.343	46.148	100.934	1.00	41.54	N
ATOM	2158	N	ASP	A	299	-11.506	45.687	96.765	1.00	36.81	N
ATOM	2159	CA	ASP	A	299	-12.358	44.650	96.223	1.00	37.64	C
ATOM	2160	C	ASP	A	299	-11.584	43.354	96.440	1.00	35.85	C
ATOM	2161	O	ASP	A	299	-10.636	43.074	95.710	1.00	33.62	O
ATOM	2162	CB	ASP	A	299	-12.583	44.871	94.736	1.00	43.70	C
ATOM	2163	CG	ASP	A	299	-13.527	43.859	94.144	1.00	54.79	C
ATOM	2164	OD1	ASP	A	299	-13.591	42.740	94.685	1.00	67.53	O
ATOM	2165	OD2	ASP	A	299	-14.190	44.167	93.132	1.00	67.01	O
ATOM	2166	N	LEU	A	300	-11.976	42.584	97.455	1.00	32.08	N
ATOM	2167	CA	LEU	A	300	-11.327	41.310	97.790	1.00	30.22	C
ATOM	2168	C	LEU	A	300	-11.470	40.241	96.684	1.00	35.38	C
ATOM	2169	O	LEU	A	300	-10.860	39.162	96.753	1.00	42.36	O
ATOM	2170	CB	LEU	A	300	-11.907	40.743	99.096	1.00	18.15	C
ATOM	2171	CG	LEU	A	300	-11.796	41.541	100.401	1.00	30.55	C
ATOM	2172	CD1	LEU	A	300	-12.475	42.884	100.243	1.00	29.26	C
ATOM	2173	CD2	LEU	A	300	-12.442	40.763	101.546	1.00	33.51	C
ATOM	2174	N	ARG	A	301	-12.298	40.519	95.680	1.00	37.98	N
ATOM	2175	CA	ARG	A	301	-12.507	39.574	94.583	1.00	42.73	C
ATOM	2176	C	ARG	A	301	-11.295	39.662	93.686	1.00	53.30	C
ATOM	2177	O	ARG	A	301	-10.744	38.653	93.259	1.00	57.15	O
ATOM	2178	CB	ARG	A	301	-13.769	39.944	93.799	1.00	34.40	C
ATOM	2179	CG	ARG	A	301	-14.984	40.079	94.705	1.00	24.85	C
ATOM	2180	CD	ARG	A	301	-16.235	40.592	94.000	1.00	25.32	C
ATOM	2181	NE	ARG	A	301	-16.077	41.935	93.443	1.00	41.71	N
ATOM	2182	CZ	ARG	A	301	-17.092	42.734	93.121	1.00	44.10	C
ATOM	2183	NH1	ARG	A	301	-18.343	42.330	93.308	1.00	50.21	N
ATOM	2184	NH2	ARG	A	301	-16.855	43.927	92.591	1.00	42.60	N
ATOM	2185	N	HIS	A	302	-10.878	40.889	93.415	1.00	63.36	N
ATOM	2186	CA	HIS	A	302	-9.731	41.118	92.565	1.00	70.59	C
ATOM	2187	C	HIS	A	302	-8.688	41.887	93.338	1.00	66.36	C
ATOM	2188	O	HIS	A	302	-8.665	43.112	93.328	1.00	73.44	O
ATOM	2189	CB	HIS	A	302	-10.185	41.869	91.324	1.00	77.08	C
ATOM	2190	CG	HIS	A	302	-11.304	41.185	90.607	1.00	87.66	C
ATOM	2191	ND1	HIS	A	302	-11.985	41.760	89.558	1.00	94.33	N
ATOM	2192	CD2	HIS	A	302	-11.867	39.968	90.799	1.00	93.17	C
ATOM	2193	CE1	HIS	A	302	-12.920	40.929	89.136	1.00	95.03	C
ATOM	2194	NE2	HIS	A	302	-12.869	39.834	89.873	1.00	96.98	N
ATOM	2195	N	ILE	A	303	-7.826	41.137	94.013	1.00	53.55	N
ATOM	2196	CA	ILE	A	303	-6.771	41.706	94.827	1.00	35.96	C
ATOM	2197	C	ILE	A	303	-5.493	40.928	94.609	1.00	34.98	C
ATOM	2198	O	ILE	A	303	-5.501	39.701	94.600	1.00	29.95	O
ATOM	2199	CB	ILE	A	303	-7.135	41.631	96.316	1.00	27.37	C
ATOM	2200	CG1	ILE	A	303	-6.021	42.250	97.160	1.00	23.79	C
ATOM	2201	CG2	ILE	A	303	-7.341	40.183	96.716	1.00	32.58	C
ATOM	2202	CD1	ILE	A	303	-6.378	42.429	98.601	1.00	29.68	C
ATOM	2203	N	SER	A	304	-4.397	41.655	94.436	1.00	33.35	N



ATOM	2204	CA	SER A 304	-3.086	41.056	94.218	1.00	29.72	C
ATOM	2205	C	SER A 304	-2.734	40.021	95.283	1.00	24.66	C
ATOM	2206	O	SER A 304	-3.131	40.143	96.444	1.00	21.66	O
ATOM	2207	CB	SER A 304	-2.024	42.159	94.191	1.00	37.18	C
ATOM	2208	OG	SER A 304	-2.505	43.327	94.844	1.00	41.23	O
ATOM	2209	N	PRO A 305	-1.983	38.981	94.904	1.00	28.02	N
ATOM	2210	CA	PRO A 305	-1.610	37.957	95.881	1.00	31.32	C
ATOM	2211	C	PRO A 305	-0.597	38.587	96.792	1.00	35.76	C
ATOM	2212	O	PRO A 305	-0.626	38.392	97.999	1.00	33.70	O
ATOM	2213	CB	PRO A 305	-0.979	36.866	95.025	1.00	31.17	C
ATOM	2214	CG	PRO A 305	-1.551	37.108	93.662	1.00	36.08	C
ATOM	2215	CD	PRO A 305	-1.528	38.601	93.563	1.00	36.70	C
ATOM	2216	N	GLN A 306	0.302	39.351	96.177	1.00	42.85	N
ATOM	2217	CA	GLN A 306	1.357	40.046	96.899	1.00	57.20	C
ATOM	2218	C	GLN A 306	0.745	40.974	97.942	1.00	57.39	C
ATOM	2219	O	GLN A 306	1.282	41.138	99.040	1.00	57.53	O
ATOM	2220	CB	GLN A 306	2.243	40.837	95.923	1.00	66.11	C
ATOM	2221	CG	GLN A 306	1.492	41.722	94.945	1.00	85.74	C
ATOM	2222	CD	GLN A 306	2.427	42.537	94.062	1.00	95.69	C
ATOM	2223	OE1	GLN A 306	3.256	41.987	93.337	1.00	94.96	O
ATOM	2224	NE2	GLN A 306	2.294	43.857	94.119	1.00	99.44	N
ATOM	2225	N	ALA A 307	-0.395	41.566	97.605	1.00	57.94	N
ATOM	2226	CA	ALA A 307	-1.076	42.463	98.524	1.00	51.17	C
ATOM	2227	C	ALA A 307	-1.655	41.654	99.667	1.00	44.95	C
ATOM	2228	O	ALA A 307	-1.232	41.798	100.805	1.00	39.07	O
ATOM	2229	CB	ALA A 307	-2.179	43.202	97.809	1.00	55.61	C
ATOM	2230	N	LYS A 308	-2.621	40.796	99.352	1.00	42.01	N
ATOM	2231	CA	LYS A 308	-3.268	39.944	100.350	1.00	47.04	C
ATOM	2232	C	LYS A 308	-2.281	39.359	101.354	1.00	50.29	C
ATOM	2233	O	LYS A 308	-2.623	39.137	102.513	1.00	47.87	O
ATOM	2234	CB	LYS A 308	-3.994	38.784	99.671	1.00	55.40	C
ATOM	2235	CG	LYS A 308	-4.576	37.776	100.662	1.00	60.40	C
ATOM	2236	CD	LYS A 308	-4.896	36.445	100.006	1.00	67.45	C
ATOM	2237	CE	LYS A 308	-3.630	35.772	99.525	1.00	70.11	C
ATOM	2238	NZ	LYS A 308	-3.911	34.412	99.008	1.00	71.25	N
ATOM	2239	N	ALA A 309	-1.064	39.088	100.890	1.00	51.68	N
ATOM	2240	CA	ALA A 309	-0.020	38.525	101.736	1.00	47.05	C
ATOM	2241	C	ALA A 309	0.271	39.497	102.860	1.00	41.92	C
ATOM	2242	O	ALA A 309	0.223	39.152	104.043	1.00	39.00	O
ATOM	2243	CB	ALA A 309	1.235	38.288	100.929	1.00	48.75	C
ATOM	2244	N	LEU A 310	0.575	40.725	102.473	1.00	38.55	N
ATOM	2245	CA	LEU A 310	0.862	41.776	103.431	1.00	35.05	C
ATOM	2246	C	LEU A 310	-0.327	41.965	104.350	1.00	31.60	C
ATOM	2247	O	LEU A 310	-0.208	41.787	105.546	1.00	36.47	O
ATOM	2248	CB	LEU A 310	1.156	43.075	102.692	1.00	40.89	C
ATOM	2249	CG	LEU A 310	1.351	44.358	103.492	1.00	41.10	C
ATOM	2250	CD1	LEU A 310	2.416	44.142	104.544	1.00	53.29	C
ATOM	2251	CD2	LEU A 310	1.742	45.500	102.549	1.00	32.28	C
ATOM	2252	N	LEU A 311	-1.475	42.311	103.782	1.00	31.14	N
ATOM	2253	CA	LEU A 311	-2.695	42.532	104.554	1.00	33.68	C
ATOM	2254	C	LEU A 311	-2.941	41.491	105.655	1.00	28.45	C
ATOM	2255	O	LEU A 311	-3.516	41.806	106.724	1.00	17.90	O
ATOM	2256	CB	LEU A 311	-3.896	42.582	103.603	1.00	30.88	C
ATOM	2257	CG	LEU A 311	-4.044	43.927	102.895	1.00	37.10	C
ATOM	2258	CD1	LEU A 311	-4.744	43.766	101.566	1.00	32.41	C
ATOM	2259	CD2	LEU A 311	-4.805	44.869	103.803	1.00	41.72	C
ATOM	2260	N	GLN A 312	-2.484	40.263	105.405	1.00	27.61	N
ATOM	2261	CA	GLN A 312	-2.674	39.162	106.353	1.00	30.22	C
ATOM	2262	C	GLN A 312	-1.445	38.737	107.173	1.00	35.43	C
ATOM	2263	O	GLN A 312	-1.537	37.806	107.965	1.00	35.04	O
ATOM	2264	CB	GLN A 312	-3.223	37.936	105.610	1.00	25.27	C
ATOM	2265	CG	GLN A 312	-4.519	38.187	104.853	1.00	29.16	C
ATOM	2266	CD	GLN A 312	-5.153	36.907	104.370	1.00	34.59	C
ATOM	2267	OE1	GLN A 312	-4.476	36.038	103.828	1.00	40.71	O
ATOM	2268	NE2	GLN A 312	-6.461	36.782	104.560	1.00	42.85	N
ATOM	2269	N	ASP A 313	-0.309	39.406	106.999	1.00	42.55	N
ATOM	2270	CA	ASP A 313	0.896	39.037	107.743	1.00	51.48	C
ATOM	2271	C	ASP A 313	0.644	38.869	109.239	1.00	56.83	C
ATOM	2272	O	ASP A 313	0.501	39.845	109.970	1.00	57.24	O
ATOM	2273	CB	ASP A 313	2.004	40.071	107.535	1.00	56.92	C
ATOM	2274	CG	ASP A 313	3.332	39.627	108.137	1.00	63.98	C
ATOM	2275	OD1	ASP A 313	3.327	39.138	109.292	1.00	75.54	O
ATOM	2276	OD2	ASP A 313	4.376	39.774	107.462	1.00	63.30	O
ATOM	2277	N	LYS A 314	0.628	37.615	109.680	1.00	65.49	N
ATOM	2278	CA	LYS A 314	0.374	37.256	111.078	1.00	66.96	C
ATOM	2279	C	LYS A 314	1.141	38.065	112.103	1.00	57.67	C
ATOM	2280	O	LYS A 314	0.578	38.489	113.111	1.00	57.17	O
ATOM	2281	CB	LYS A 314	0.675	35.772	111.310	1.00	82.41	C
ATOM	2282	CG	LYS A 314	-0.131	34.821	110.436	1.00	107.34	C

ATOM	2283	CD	LYS	A	314	0.257	33.378	110.710	1.00	121.94	C
ATOM	2284	CE	LYS	A	314	-0.587	32.410	109.897	1.00	128.64	C
ATOM	2285	NZ	LYS	A	314	-0.280	30.993	110.247	1.00	133.21	N
ATOM	2286	N	ASP	A	315	2.426	38.267	111.840	1.00	54.28	N
ATOM	2287	CA	ASP	A	315	3.304	39.000	112.751	1.00	54.88	C
ATOM	2288	C	ASP	A	315	3.004	40.490	112.850	1.00	53.15	C
ATOM	2289	O	ASP	A	315	3.227	41.108	113.891	1.00	57.46	O
ATOM	2290	CB	ASP	A	315	4.753	38.807	112.317	1.00	53.56	C
ATOM	2291	CG	ASP	A	315	5.064	37.365	111.983	1.00	53.59	C
ATOM	2292	OD1	ASP	A	315	5.195	36.550	112.924	1.00	45.91	O
ATOM	2293	OD2	ASP	A	315	5.162	37.051	110.775	1.00	56.89	O
ATOM	2294	N	VAL	A	316	2.513	41.072	111.764	1.00	44.71	N
ATOM	2295	CA	VAL	A	316	2.200	42.491	111.772	1.00	43.05	C
ATOM	2296	C	VAL	A	316	0.828	42.730	112.393	1.00	41.13	C
ATOM	2297	O	VAL	A	316	0.645	43.676	113.168	1.00	48.44	O
ATOM	2298	CB	VAL	A	316	2.239	43.065	110.351	1.00	43.95	C
ATOM	2299	CG1	VAL	A	316	1.943	44.552	110.380	1.00	47.89	C
ATOM	2300	CG2	VAL	A	316	3.611	42.817	109.740	1.00	47.49	C
ATOM	2301	N	ILE	A	317	-0.132	41.871	112.059	1.00	34.07	N
ATOM	2302	CA	ILE	A	317	-1.468	41.999	112.618	1.00	30.90	C
ATOM	2303	C	ILE	A	317	-1.337	41.899	114.128	1.00	38.79	C
ATOM	2304	O	ILE	A	317	-2.001	42.626	114.869	1.00	40.90	O
ATOM	2305	CB	ILE	A	317	-2.379	40.878	112.164	1.00	33.91	C
ATOM	2306	CG1	ILE	A	317	-2.279	40.715	110.657	1.00	45.06	C
ATOM	2307	CG2	ILE	A	317	-3.797	41.187	112.572	1.00	24.03	C
ATOM	2308	CD1	ILE	A	317	-3.069	39.541	110.118	1.00	58.36	C
ATOM	2309	N	ALA	A	318	-0.475	40.981	114.564	1.00	43.73	N
ATOM	2310	CA	ALA	A	318	-0.211	40.746	115.978	1.00	45.24	C
ATOM	2311	C	ALA	A	318	0.210	42.043	116.640	1.00	41.00	C
ATOM	2312	O	ALA	A	318	-0.322	42.423	117.681	1.00	47.27	O
ATOM	2313	CB	ALA	A	318	0.880	39.711	116.139	1.00	50.89	C
ATOM	2314	N	ILE	A	319	1.177	42.726	116.046	1.00	35.38	N
ATOM	2315	CA	ILE	A	319	1.617	43.989	116.611	1.00	37.59	C
ATOM	2316	C	ILE	A	319	0.436	44.946	116.776	1.00	42.37	C
ATOM	2317	O	ILE	A	319	0.174	45.410	117.886	1.00	51.31	O
ATOM	2318	CB	ILE	A	319	2.701	44.630	115.736	1.00	33.50	C
ATOM	2319	CG1	ILE	A	319	4.004	43.851	115.906	1.00	36.32	C
ATOM	2320	CG2	ILE	A	319	2.907	46.080	116.121	1.00	24.15	C
ATOM	2321	CD1	ILE	A	319	5.096	44.312	115.001	1.00	50.54	C
ATOM	2322	N	ASN	A	320	-0.279	45.226	115.687	1.00	41.39	N
ATOM	2323	CA	ASN	A	320	-1.430	46.118	115.752	1.00	44.04	C
ATOM	2324	C	ASN	A	320	-2.487	45.624	116.751	1.00	42.92	C
ATOM	2325	O	ASN	A	320	-3.166	46.432	117.402	1.00	42.62	O
ATOM	2326	CB	ASN	A	320	-2.052	46.264	114.360	1.00	48.77	C
ATOM	2327	CG	ASN	A	320	-3.400	46.972	114.389	1.00	49.02	C
ATOM	2328	OD1	ASN	A	320	-4.366	46.460	114.947	1.00	50.55	O
ATOM	2329	ND2	ASN	A	320	-3.468	48.153	113.781	1.00	48.27	N
ATOM	2330	N	GLN	A	321	-2.614	44.300	116.865	1.00	41.27	N
ATOM	2331	CA	GLN	A	321	-3.575	43.655	117.770	1.00	42.11	C
ATOM	2332	C	GLN	A	321	-3.035	43.442	119.185	1.00	37.90	C
ATOM	2333	O	GLN	A	321	-3.636	42.716	119.991	1.00	38.05	O
ATOM	2334	CB	GLN	A	321	-3.999	42.297	117.213	1.00	47.40	C
ATOM	2335	CG	GLN	A	321	-5.033	42.376	116.132	1.00	44.04	C
ATOM	2336	CD	GLN	A	321	-6.282	43.051	116.621	1.00	38.41	C
ATOM	2337	OE1	GLN	A	321	-6.794	42.726	117.686	1.00	20.43	O
ATOM	2338	NE2	GLN	A	321	-6.785	43.995	115.843	1.00	37.61	N
ATOM	2339	N	ASP	A	322	-1.898	44.067	119.479	1.00	34.86	N
ATOM	2340	CA	ASP	A	322	-1.281	43.948	120.794	1.00	33.53	C
ATOM	2341	C	ASP	A	322	-2.363	44.148	121.849	1.00	29.16	C
ATOM	2342	O	ASP	A	322	-3.154	45.089	121.773	1.00	29.97	O
ATOM	2343	CB	ASP	A	322	-0.175	44.993	120.944	1.00	40.79	C
ATOM	2344	CG	ASP	A	322	0.655	44.782	122.180	1.00	43.03	C
ATOM	2345	OD1	ASP	A	322	1.207	43.675	122.350	1.00	32.44	O
ATOM	2346	OD2	ASP	A	322	0.757	45.735	122.972	1.00	51.49	O
ATOM	2347	N	PRO	A	323	-2.405	43.258	122.846	1.00	26.74	N
ATOM	2348	CA	PRO	A	323	-3.383	43.290	123.935	1.00	31.97	C
ATOM	2349	C	PRO	A	323	-3.221	44.500	124.811	1.00	35.44	C
ATOM	2350	O	PRO	A	323	-4.189	45.007	125.369	1.00	43.01	O
ATOM	2351	CB	PRO	A	323	-3.083	42.010	124.691	1.00	39.61	C
ATOM	2352	CG	PRO	A	323	-1.584	41.978	124.624	1.00	39.47	C
ATOM	2353	CD	PRO	A	323	-1.309	42.325	123.163	1.00	35.67	C
ATOM	2354	N	LEU	A	324	-1.979	44.947	124.925	1.00	36.88	N
ATOM	2355	CA	LEU	A	324	-1.653	46.084	125.758	1.00	40.93	C
ATOM	2356	C	LEU	A	324	-2.498	47.299	125.407	1.00	40.56	C
ATOM	2357	O	LEU	A	324	-3.158	47.872	126.275	1.00	45.00	O
ATOM	2358	CB	LEU	A	324	-0.169	46.427	125.628	1.00	46.67	C
ATOM	2359	CG	LEU	A	324	0.519	46.892	126.915	1.00	54.17	C
ATOM	2360	CD1	LEU	A	324	1.848	47.528	126.556	1.00	62.38	C
ATOM	2361	CD2	LEU	A	324	-0.355	47.894	127.656	1.00	53.61	C

ATOM	2362	N	GLY	A	325	-2.463	47.699	124.139	1.00	38.97	N
ATOM	2363	CA	GLY	A	325	-3.242	48.846	123.708	1.00	41.98	C
ATOM	2364	C	GLY	A	325	-2.527	50.166	123.912	1.00	47.29	C
ATOM	2365	O	GLY	A	325	-3.148	51.170	124.264	1.00	52.51	O
ATOM	2366	N	LYS	A	326	-1.217	50.163	123.696	1.00	48.67	N
ATOM	2367	CA	LYS	A	326	-0.414	51.368	123.850	1.00	49.67	C
ATOM	2368	C	LYS	A	326	-0.066	51.915	122.476	1.00	49.39	C
ATOM	2369	O	LYS	A	326	0.798	51.373	121.801	1.00	55.07	O
ATOM	2370	CB	LYS	A	326	0.862	51.038	124.622	1.00	56.04	C
ATOM	2371	CG	LYS	A	326	0.628	50.710	126.086	1.00	73.85	C
ATOM	2372	CD	LYS	A	326	0.246	51.950	126.890	1.00	82.94	C
ATOM	2373	CE	LYS	A	326	1.430	52.903	127.054	1.00	88.67	C
ATOM	2374	NZ	LYS	A	326	1.079	54.124	127.836	1.00	93.02	N
ATOM	2375	N	GLN	A	327	-0.724	52.998	122.071	1.00	48.25	N
ATOM	2376	CA	GLN	A	327	-0.491	53.573	120.746	1.00	50.19	C
ATOM	2377	C	GLN	A	327	0.920	54.090	120.541	1.00	45.92	C
ATOM	2378	O	GLN	A	327	1.492	54.715	121.423	1.00	47.59	O
ATOM	2379	CB	GLN	A	327	-1.504	54.687	120.457	1.00	46.44	C
ATOM	2380	CG	GLN	A	327	-1.652	55.028	118.977	1.00	36.98	C
ATOM	2381	CD	GLN	A	327	-3.034	55.579	118.640	1.00	41.12	C
ATOM	2382	OE1	GLN	A	327	-4.041	54.862	118.680	1.00	47.47	O
ATOM	2383	NE2	GLN	A	327	-3.085	56.858	118.309	1.00	34.38	N
ATOM	2384	N	GLY	A	328	1.470	53.820	119.361	1.00	36.61	N
ATOM	2385	CA	GLY	A	328	2.818	54.249	119.043	1.00	29.84	C
ATOM	2386	C	GLY	A	328	2.895	55.741	118.822	1.00	27.35	C
ATOM	2387	O	GLY	A	328	1.923	56.463	119.057	1.00	29.82	O
ATOM	2388	N	TYR	A	329	4.050	56.202	118.358	1.00	29.39	N
ATOM	2389	CA	TYR	A	329	4.268	57.622	118.118	1.00	35.23	C
ATOM	2390	C	TYR	A	329	5.595	57.878	117.421	1.00	37.00	C
ATOM	2391	O	TYR	A	329	6.515	57.060	117.470	1.00	36.29	O
ATOM	2392	CB	TYR	A	329	4.276	58.369	119.443	1.00	38.53	C
ATOM	2393	CG	TYR	A	329	5.275	57.798	120.422	1.00	46.66	C
ATOM	2394	CD1	TYR	A	329	6.643	57.993	120.250	1.00	48.72	C
ATOM	2395	CD2	TYR	A	329	4.850	57.025	121.508	1.00	51.95	C
ATOM	2396	CE1	TYR	A	329	7.562	57.430	121.136	1.00	49.58	C
ATOM	2397	CE2	TYR	A	329	5.759	56.461	122.397	1.00	51.04	C
ATOM	2398	CZ	TYR	A	329	7.111	56.665	122.207	1.00	46.71	C
ATOM	2399	OH	TYR	A	329	8.015	56.100	123.078	1.00	44.19	O
ATOM	2400	N	GLN	A	330	5.693	59.036	116.787	1.00	37.71	N
ATOM	2401	CA	GLN	A	330	6.915	59.419	116.108	1.00	32.77	C
ATOM	2402	C	GLN	A	330	7.949	59.763	117.168	1.00	34.91	C
ATOM	2403	O	GLN	A	330	7.664	60.480	118.118	1.00	29.29	O
ATOM	2404	CB	GLN	A	330	6.661	60.636	115.228	1.00	29.38	C
ATOM	2405	CG	GLN	A	330	7.876	61.132	114.480	1.00	37.88	C
ATOM	2406	CD	GLN	A	330	7.614	62.464	113.828	1.00	50.08	C
ATOM	2407	OE1	GLN	A	330	7.393	63.461	114.508	1.00	50.66	O
ATOM	2408	NE2	GLN	A	330	7.621	62.489	112.507	1.00	52.87	N
ATOM	2409	N	LEU	A	331	9.146	59.231	117.017	1.00	40.46	N
ATOM	2410	CA	LEU	A	331	10.191	59.526	117.961	1.00	44.60	C
ATOM	2411	C	LEU	A	331	11.053	60.640	117.399	1.00	49.33	C
ATOM	2412	O	LEU	A	331	11.194	61.701	118.016	1.00	52.75	O
ATOM	2413	CB	LEU	A	331	11.037	58.283	118.216	1.00	45.31	C
ATOM	2414	CG	LEU	A	331	12.287	58.486	119.082	1.00	48.54	C
ATOM	2415	CD1	LEU	A	331	12.005	59.479	120.190	1.00	55.41	C
ATOM	2416	CD2	LEU	A	331	12.735	57.150	119.650	1.00	52.33	C
ATOM	2417	N	ARG	A	332	11.603	60.400	116.211	1.00	53.70	N
ATOM	2418	CA	ARG	A	332	12.473	61.361	115.550	1.00	60.63	C
ATOM	2419	C	ARG	A	332	11.950	62.002	114.262	1.00	60.77	C
ATOM	2420	O	ARG	A	332	11.004	61.528	113.632	1.00	55.57	O
ATOM	2421	CB	ARG	A	332	13.826	60.707	115.267	1.00	65.11	C
ATOM	2422	CG	ARG	A	332	14.770	60.696	116.450	1.00	69.71	C
ATOM	2423	CD	ARG	A	332	16.044	59.921	116.147	1.00	69.46	C
ATOM	2424	NE	ARG	A	332	17.140	60.259	117.057	1.00	75.06	N
ATOM	2425	CZ	ARG	A	332	17.059	60.232	118.384	1.00	81.31	C
ATOM	2426	NH1	ARG	A	332	15.927	59.882	118.981	1.00	82.93	N
ATOM	2427	NH2	ARG	A	332	18.112	60.563	119.120	1.00	85.14	N
ATOM	2428	N	GLN	A	333	12.610	63.092	113.890	1.00	65.78	N
ATOM	2429	CA	GLN	A	333	12.296	63.855	112.701	1.00	67.90	C
ATOM	2430	C	GLN	A	333	13.634	64.097	112.058	1.00	71.18	C
ATOM	2431	O	GLN	A	333	14.632	63.535	112.479	1.00	68.31	O
ATOM	2432	CB	GLN	A	333	11.707	65.201	113.085	1.00	72.61	C
ATOM	2433	CG	GLN	A	333	10.993	65.880	111.956	1.00	79.18	C
ATOM	2434	CD	GLN	A	333	9.729	65.146	111.594	1.00	86.56	C
ATOM	2435	OE1	GLN	A	333	9.004	65.538	110.685	1.00	93.40	O
ATOM	2436	NE2	GLN	A	333	9.455	64.067	112.312	1.00	88.10	N
ATOM	2437	N	GLY	A	334	13.655	64.945	111.042	1.00	79.40	N
ATOM	2438	CA	GLY	A	334	14.909	65.269	110.384	1.00	87.47	C
ATOM	2439	C	GLY	A	334	15.453	64.373	109.285	1.00	87.45	C
ATOM	2440	O	GLY	A	334	15.146	63.179	109.202	1.00	84.44	O

ATOM	2441	N	ASP	A	335	16.284	64.982	108.440	1.00	88.86	N
ATOM	2442	CA	ASP	A	335	16.920	64.309	107.308	1.00	85.39	C
ATOM	2443	C	ASP	A	335	15.968	63.347	106.612	1.00	77.33	C
ATOM	2444	O	ASP	A	335	16.228	62.146	106.544	1.00	74.37	O
ATOM	2445	CB	ASP	A	335	18.159	63.544	107.778	1.00	95.54	C
ATOM	2446	CG	ASP	A	335	19.155	63.309	106.661	1.00	100.21	C
ATOM	2447	OD1	ASP	A	335	19.861	64.273	106.289	1.00	102.26	O
ATOM	2448	OD2	ASP	A	335	19.224	62.168	106.150	1.00	104.80	O
ATOM	2449	N	ASN	A	336	14.874	63.890	106.088	1.00	69.33	N
ATOM	2450	CA	ASN	A	336	13.866	63.090	105.411	1.00	62.56	C
ATOM	2451	C	ASN	A	336	13.805	61.697	105.990	1.00	56.64	C
ATOM	2452	O	ASN	A	336	13.968	60.706	105.285	1.00	56.81	O
ATOM	2453	CB	ASN	A	336	14.153	63.021	103.920	1.00	64.42	C
ATOM	2454	CG	ASN	A	336	13.485	64.129	103.172	1.00	75.47	C
ATOM	2455	OD1	ASN	A	336	12.306	64.400	103.395	1.00	80.59	O
ATOM	2456	ND2	ASN	A	336	14.220	64.782	102.277	1.00	82.36	N
ATOM	2457	N	PHE	A	337	13.562	61.636	107.291	1.00	45.38	N
ATOM	2458	CA	PHE	A	337	13.502	60.373	107.986	1.00	32.52	C
ATOM	2459	C	PHE	A	337	12.569	60.501	109.172	1.00	31.65	C
ATOM	2460	O	PHE	A	337	12.612	61.499	109.890	1.00	41.04	O
ATOM	2461	CB	PHE	A	337	14.901	59.984	108.464	1.00	35.90	C
ATOM	2462	CG	PHE	A	337	15.625	59.044	107.538	1.00	41.00	C
ATOM	2463	CD1	PHE	A	337	16.977	59.219	107.268	1.00	43.16	C
ATOM	2464	CD2	PHE	A	337	14.966	57.962	106.962	1.00	43.25	C
ATOM	2465	CE1	PHE	A	337	17.666	58.331	106.440	1.00	46.01	C
ATOM	2466	CE2	PHE	A	337	15.644	57.072	106.136	1.00	45.63	C
ATOM	2467	CZ	PHE	A	337	16.999	57.257	105.874	1.00	45.74	C
ATOM	2468	N	GLU	A	338	11.716	59.502	109.367	1.00	26.29	N
ATOM	2469	CA	GLU	A	338	10.786	59.502	110.481	1.00	29.69	C
ATOM	2470	C	GLU	A	338	10.962	58.218	111.252	1.00	23.34	C
ATOM	2471	O	GLU	A	338	10.997	57.150	110.656	1.00	27.49	O
ATOM	2472	CB	GLU	A	338	9.343	59.581	109.980	1.00	34.11	C
ATOM	2473	CG	GLU	A	338	8.840	60.986	109.680	1.00	38.07	C
ATOM	2474	CD	GLU	A	338	7.316	61.070	109.589	1.00	43.85	C
ATOM	2475	OE1	GLU	A	338	6.625	60.777	110.597	1.00	46.32	O
ATOM	2476	OE2	GLU	A	338	6.809	61.436	108.508	1.00	47.89	O
ATOM	2477	N	VAL	A	339	11.067	58.304	112.572	1.00	12.61	N
ATOM	2478	CA	VAL	A	339	11.209	57.093	113.363	1.00	12.26	C
ATOM	2479	C	VAL	A	339	10.028	56.913	114.297	1.00	9.82	C
ATOM	2480	O	VAL	A	339	9.867	57.674	115.257	1.00	17.52	O
ATOM	2481	CB	VAL	A	339	12.488	57.113	114.214	1.00	16.72	C
ATOM	2482	CG1	VAL	A	339	12.474	55.945	115.191	1.00	18.37	C
ATOM	2483	CG2	VAL	A	339	13.712	57.046	113.318	1.00	24.35	C
ATOM	2484	N	TRP	A	340	9.209	55.902	114.035	1.00	9.60	N
ATOM	2485	CA	TRP	A	340	8.056	55.644	114.889	1.00	17.16	C
ATOM	2486	C	TRP	A	340	8.305	54.434	115.790	1.00	17.17	C
ATOM	2487	O	TRP	A	340	9.208	53.638	115.532	1.00	16.55	O
ATOM	2488	CB	TRP	A	340	6.816	55.416	114.029	1.00	25.15	C
ATOM	2489	CG	TRP	A	340	6.367	56.646	113.324	1.00	32.90	C
ATOM	2490	CD1	TRP	A	340	7.086	57.387	112.440	1.00	33.98	C
ATOM	2491	CD2	TRP	A	340	5.110	57.309	113.473	1.00	41.04	C
ATOM	2492	NE1	TRP	A	340	6.358	58.475	112.026	1.00	42.03	N
ATOM	2493	CE2	TRP	A	340	5.140	58.452	112.644	1.00	46.80	C
ATOM	2494	CE3	TRP	A	340	3.961	57.051	114.226	1.00	47.74	C
ATOM	2495	CZ2	TRP	A	340	4.070	59.338	112.550	1.00	56.89	C
ATOM	2496	CZ3	TRP	A	340	2.896	57.933	114.134	1.00	47.15	C
ATOM	2497	CH2	TRP	A	340	2.958	59.064	113.300	1.00	55.77	C
ATOM	2498	N	GLU	A	341	7.513	54.304	116.852	1.00	16.97	N
ATOM	2499	CA	GLU	A	341	7.650	53.182	117.784	1.00	17.90	C
ATOM	2500	C	GLU	A	341	6.443	53.057	118.719	1.00	15.85	C
ATOM	2501	O	GLU	A	341	5.845	54.049	119.150	1.00	17.73	O
ATOM	2502	CB	GLU	A	341	8.919	53.329	118.632	1.00	18.18	C
ATOM	2503	CG	GLU	A	341	8.721	54.174	119.882	1.00	36.58	C
ATOM	2504	CD	GLU	A	341	10.016	54.417	120.644	1.00	40.66	C
ATOM	2505	OE1	GLU	A	341	10.732	53.440	120.940	1.00	43.84	O
ATOM	2506	OE2	GLU	A	341	10.323	55.586	120.963	1.00	45.95	O
ATOM	2507	N	ARG	A	342	6.099	51.817	119.028	1.00	20.21	N
ATOM	2508	CA	ARG	A	342	4.985	51.527	119.908	1.00	27.65	C
ATOM	2509	C	ARG	A	342	5.438	50.477	120.918	1.00	31.87	C
ATOM	2510	O	ARG	A	342	6.049	49.473	120.545	1.00	42.57	O
ATOM	2511	CB	ARG	A	342	3.800	50.966	119.105	1.00	25.33	C
ATOM	2512	CG	ARG	A	342	2.701	50.375	119.985	1.00	25.09	C
ATOM	2513	CD	ARG	A	342	1.752	49.448	119.237	1.00	24.25	C
ATOM	2514	NE	ARG	A	342	0.577	49.103	120.044	1.00	26.47	N
ATOM	2515	CZ	ARG	A	342	-0.452	48.389	119.598	1.00	30.27	C
ATOM	2516	NH1	ARG	A	342	-0.440	47.942	118.353	1.00	31.99	N
ATOM	2517	NH2	ARG	A	342	-1.506	48.147	120.371	1.00	34.96	N
ATOM	2518	N	PRO	A	343	5.181	50.702	122.211	1.00	26.00	N
ATOM	2519	CA	PRO	A	343	5.611	49.668	123.148	1.00	21.89	C

ATOM	2520	C	PRO	A	343	4.547	48.578	123.068	1.00	27.99	C
ATOM	2521	O	PRO	A	343	3.358	48.877	122.905	1.00	26.98	O
ATOM	2522	CB	PRO	A	343	5.603	50.396	124.474	1.00	8.64	C
ATOM	2523	CG	PRO	A	343	4.455	51.318	124.316	1.00	11.85	C
ATOM	2524	CD	PRO	A	343	4.640	51.869	122.923	1.00	20.11	C
ATOM	2525	N	LEU	A	344	4.970	47.322	123.156	1.00	34.97	N
ATOM	2526	CA	LEU	A	344	4.040	46.195	123.085	1.00	39.22	C
ATOM	2527	C	LEU	A	344	3.918	45.574	124.477	1.00	46.77	C
ATOM	2528	O	LEU	A	344	4.025	46.274	125.478	1.00	51.96	O
ATOM	2529	CB	LEU	A	344	4.570	45.162	122.098	1.00	30.94	C
ATOM	2530	CG	LEU	A	344	5.077	45.857	120.842	1.00	35.48	C
ATOM	2531	CD1	LEU	A	344	5.746	44.857	119.914	1.00	43.68	C
ATOM	2532	CD2	LEU	A	344	3.902	46.557	120.172	1.00	44.42	C
ATOM	2533	N	SER	A	345	3.690	44.267	124.535	1.00	51.33	N
ATOM	2534	CA	SER	A	345	3.577	43.572	125.805	1.00	57.81	C
ATOM	2535	C	SER	A	345	4.868	42.798	125.989	1.00	57.31	C
ATOM	2536	O	SER	A	345	5.555	42.511	125.015	1.00	54.00	O
ATOM	2537	CB	SER	A	345	2.399	42.602	125.776	1.00	65.41	C
ATOM	2538	OG	SER	A	345	1.220	43.248	125.356	1.00	72.59	O
ATOM	2539	N	GLY	A	346	5.203	42.475	127.233	1.00	58.68	N
ATOM	2540	CA	GLY	A	346	6.409	41.715	127.507	1.00	63.75	C
ATOM	2541	C	GLY	A	346	7.730	42.381	127.180	1.00	66.32	C
ATOM	2542	O	GLY	A	346	8.646	41.720	126.694	1.00	68.08	O
ATOM	2543	N	LEU	A	347	7.831	43.680	127.446	1.00	67.45	N
ATOM	2544	CA	LEU	A	347	9.061	44.434	127.194	1.00	70.86	C
ATOM	2545	C	LEU	A	347	9.484	44.433	125.727	1.00	71.91	C
ATOM	2546	O	LEU	A	347	10.639	44.721	125.398	1.00	78.43	O
ATOM	2547	CB	LEU	A	347	10.196	43.870	128.049	1.00	77.11	C
ATOM	2548	CG	LEU	A	347	9.956	43.870	129.559	1.00	85.78	C
ATOM	2549	CD1	LEU	A	347	11.102	43.153	130.256	1.00	94.76	C
ATOM	2550	CD2	LEU	A	347	9.829	45.302	130.055	1.00	88.27	C
ATOM	2551	N	ALA	A	348	8.543	44.097	124.853	1.00	66.88	N
ATOM	2552	CA	ALA	A	348	8.804	44.058	123.427	1.00	55.04	C
ATOM	2553	C	ALA	A	348	8.354	45.368	122.809	1.00	41.31	C
ATOM	2554	O	ALA	A	348	7.332	45.923	123.196	1.00	35.51	O
ATOM	2555	CB	ALA	A	348	8.062	42.893	122.797	1.00	67.28	C
ATOM	2556	N	TRP	A	349	9.124	45.864	121.850	1.00	32.83	N
ATOM	2557	CA	TRP	A	349	8.785	47.116	121.202	1.00	27.38	C
ATOM	2558	C	TRP	A	349	8.779	47.022	119.687	1.00	28.15	C
ATOM	2559	O	TRP	A	349	9.598	46.318	119.095	1.00	30.66	O
ATOM	2560	CB	TRP	A	349	9.769	48.191	121.622	1.00	27.05	C
ATOM	2561	CG	TRP	A	349	9.634	48.610	123.031	1.00	26.81	C
ATOM	2562	CD1	TRP	A	349	9.686	47.808	124.145	1.00	38.79	C
ATOM	2563	CD2	TRP	A	349	9.489	49.947	123.505	1.00	19.14	C
ATOM	2564	NE1	TRP	A	349	9.586	48.572	125.285	1.00	34.04	N
ATOM	2565	CE2	TRP	A	349	9.464	49.889	124.920	1.00	28.66	C
ATOM	2566	CE3	TRP	A	349	9.380	51.191	122.875	1.00	11.37	C
ATOM	2567	CZ2	TRP	A	349	9.335	51.035	125.711	1.00	36.09	C
ATOM	2568	CZ3	TRP	A	349	9.254	52.320	123.649	1.00	29.51	C
ATOM	2569	CH2	TRP	A	349	9.232	52.239	125.057	1.00	39.76	C
ATOM	2570	N	ALA	A	350	7.847	47.737	119.064	1.00	24.57	N
ATOM	2571	CA	ALA	A	350	7.735	47.768	117.612	1.00	24.86	C
ATOM	2572	C	ALA	A	350	8.318	49.105	117.157	1.00	28.08	C
ATOM	2573	O	ALA	A	350	8.108	50.125	117.814	1.00	35.08	O
ATOM	2574	CB	ALA	A	350	6.273	47.661	117.203	1.00	24.91	C
ATOM	2575	N	VAL	A	351	9.049	49.105	116.042	1.00	28.62	N
ATOM	2576	CA	VAL	A	351	9.657	50.335	115.537	1.00	29.07	C
ATOM	2577	C	VAL	A	351	9.529	50.514	114.028	1.00	32.11	C
ATOM	2578	O	VAL	A	351	9.734	49.573	113.253	1.00	31.37	O
ATOM	2579	CB	VAL	A	351	11.156	50.415	115.887	1.00	30.43	C
ATOM	2580	CG1	VAL	A	351	11.696	51.764	115.487	1.00	26.13	C
ATOM	2581	CG2	VAL	A	351	11.367	50.186	117.365	1.00	22.49	C
ATOM	2582	N	ALA	A	352	9.217	51.741	113.617	1.00	28.58	N
ATOM	2583	CA	ALA	A	352	9.055	52.060	112.199	1.00	29.67	C
ATOM	2584	C	ALA	A	352	10.169	52.966	111.681	1.00	23.48	C
ATOM	2585	O	ALA	A	352	10.739	53.783	112.420	1.00	15.30	O
ATOM	2586	CB	ALA	A	352	7.687	52.713	111.949	1.00	39.82	C
ATOM	2587	N	MET	A	353	10.471	52.802	110.399	1.00	21.96	N
ATOM	2588	CA	MET	A	353	11.510	53.576	109.744	1.00	24.60	C
ATOM	2589	C	MET	A	353	11.036	53.980	108.336	1.00	24.95	C
ATOM	2590	O	MET	A	353	11.119	53.202	107.379	1.00	20.54	O
ATOM	2591	CB	MET	A	353	12.798	52.748	109.684	1.00	33.80	C
ATOM	2592	CG	MET	A	353	13.978	53.367	110.422	1.00	43.10	C
ATOM	2593	SD	MET	A	353	14.818	52.205	111.503	1.00	47.21	S
ATOM	2594	CE	MET	A	353	15.472	51.008	110.336	1.00	53.94	C
ATOM	2595	N	ILE	A	354	10.533	55.211	108.233	1.00	22.56	N
ATOM	2596	CA	ILE	A	354	10.009	55.758	106.985	1.00	19.74	C
ATOM	2597	C	ILE	A	354	11.007	56.662	106.278	1.00	22.46	C
ATOM	2598	O	ILE	A	354	11.543	57.594	106.878	1.00	28.82	O

ATOM	2599	CB	ILE	A	354	8.772	56.616	107.235	1.00	13.71	C
ATOM	2600	CG1	ILE	A	354	7.889	55.980	108.297	1.00	5.73	C
ATOM	2601	CG2	ILE	A	354	8.004	56.756	105.956	1.00	19.87	C
ATOM	2602	CD1	ILE	A	354	6.901	56.944	108.893	1.00	21.25	C
ATOM	2603	N	ASN	A	355	11.245	56.393	104.998	1.00	23.27	N
ATOM	2604	CA	ASN	A	355	12.155	57.214	104.220	1.00	34.18	C
ATOM	2605	C	ASN	A	355	11.287	58.190	103.441	1.00	36.71	C
ATOM	2606	O	ASN	A	355	10.781	57.876	102.373	1.00	32.22	O
ATOM	2607	CB	ASN	A	355	13.002	56.348	103.272	1.00	39.85	C
ATOM	2608	CG	ASN	A	355	13.831	57.177	102.286	1.00	36.79	C
ATOM	2609	OD1	ASN	A	355	14.328	58.253	102.616	1.00	35.57	O
ATOM	2610	ND2	ASN	A	355	13.992	56.659	101.073	1.00	25.45	N
ATOM	2611	N	ARG	A	356	11.097	59.377	104.000	1.00	35.71	N
ATOM	2612	CA	ARG	A	356	10.289	60.385	103.346	1.00	27.94	C
ATOM	2613	C	ARG	A	356	10.969	61.058	102.167	1.00	33.57	C
ATOM	2614	O	ARG	A	356	10.556	62.146	101.772	1.00	39.39	O
ATOM	2615	CB	ARG	A	356	9.854	61.444	104.360	1.00	15.59	C
ATOM	2616	CG	ARG	A	356	8.787	60.954	105.318	1.00	14.97	C
ATOM	2617	CD	ARG	A	356	7.551	60.451	104.568	1.00	31.33	C
ATOM	2618	NE	ARG	A	356	6.684	61.508	104.033	1.00	48.53	N
ATOM	2619	CZ	ARG	A	356	6.017	62.388	104.781	1.00	50.62	C
ATOM	2620	NH1	ARG	A	356	6.113	62.357	106.102	1.00	48.45	N
ATOM	2621	NH2	ARG	A	356	5.235	63.294	104.211	1.00	48.50	N
ATOM	2622	N	GLN	A	357	11.994	60.427	101.593	1.00	35.04	N
ATOM	2623	CA	GLN	A	357	12.691	61.032	100.456	1.00	33.28	C
ATOM	2624	C	GLN	A	357	12.197	60.548	99.090	1.00	31.79	C
ATOM	2625	O	GLN	A	357	12.697	59.568	98.540	1.00	32.87	O
ATOM	2626	CB	GLN	A	357	14.188	60.793	100.585	1.00	36.36	C
ATOM	2627	CG	GLN	A	357	14.975	61.407	99.464	1.00	56.02	C
ATOM	2628	CD	GLN	A	357	16.321	61.930	99.914	1.00	61.03	C
ATOM	2629	OE1	GLN	A	357	16.396	62.821	100.755	1.00	63.53	O
ATOM	2630	NE2	GLN	A	357	17.390	61.379	99.359	1.00	65.54	N
ATOM	2631	N	GLU	A	358	11.213	61.261	98.552	1.00	31.67	N
ATOM	2632	CA	GLU	A	358	10.571	60.942	97.275	1.00	37.21	C
ATOM	2633	C	GLU	A	358	11.458	60.598	96.072	1.00	35.86	C
ATOM	2634	O	GLU	A	358	10.998	59.943	95.132	1.00	36.71	O
ATOM	2635	CB	GLU	A	358	9.655	62.102	96.879	1.00	46.42	C
ATOM	2636	CG	GLU	A	358	8.617	62.496	97.923	1.00	49.92	C
ATOM	2637	CD	GLU	A	358	7.405	61.587	97.919	1.00	51.00	C
ATOM	2638	OE1	GLU	A	358	6.927	61.240	96.817	1.00	54.14	O
ATOM	2639	OE2	GLU	A	358	6.922	61.233	99.012	1.00	56.01	O
ATOM	2640	N	ILE	A	359	12.715	61.034	96.090	1.00	37.36	N
ATOM	2641	CA	ILE	A	359	13.615	60.785	94.961	1.00	38.55	C
ATOM	2642	C	ILE	A	359	14.916	60.060	95.320	1.00	33.78	C
ATOM	2643	O	ILE	A	359	15.294	59.970	96.485	1.00	26.01	O
ATOM	2644	CB	ILE	A	359	13.948	62.120	94.259	1.00	48.55	C
ATOM	2645	CG1	ILE	A	359	14.698	61.866	92.951	1.00	50.62	C
ATOM	2646	CG2	ILE	A	359	14.741	63.018	95.206	1.00	43.41	C
ATOM	2647	CD1	ILE	A	359	14.975	63.126	92.160	1.00	63.56	C
ATOM	2648	N	GLY	A	360	15.595	59.537	94.306	1.00	35.67	N
ATOM	2649	CA	GLY	A	360	16.837	58.821	94.538	1.00	49.08	C
ATOM	2650	C	GLY	A	360	16.650	57.318	94.690	1.00	53.38	C
ATOM	2651	O	GLY	A	360	15.933	56.679	93.918	1.00	55.36	O
ATOM	2652	N	GLY	A	361	17.307	56.749	95.692	1.00	50.24	N
ATOM	2653	CA	GLY	A	361	17.205	55.322	95.919	1.00	49.48	C
ATOM	2654	C	GLY	A	361	17.064	55.017	97.395	1.00	51.09	C
ATOM	2655	O	GLY	A	361	16.636	55.889	98.152	1.00	59.46	O
ATOM	2656	N	PRO	A	362	17.419	53.796	97.842	1.00	49.93	N
ATOM	2657	CA	PRO	A	362	17.316	53.405	99.246	1.00	51.63	C
ATOM	2658	C	PRO	A	362	18.457	54.015	100.026	1.00	54.61	C
ATOM	2659	O	PRO	A	362	19.619	53.748	99.725	1.00	61.64	O
ATOM	2660	CB	PRO	A	362	17.420	51.891	99.177	1.00	46.25	C
ATOM	2661	CG	PRO	A	362	18.449	51.704	98.121	1.00	48.61	C
ATOM	2662	CD	PRO	A	362	18.021	52.706	97.054	1.00	50.22	C
ATOM	2663	N	ARG	A	363	18.124	54.843	101.010	1.00	51.09	N
ATOM	2664	CA	ARG	A	363	19.138	55.479	101.822	1.00	47.56	C
ATOM	2665	C	ARG	A	363	19.375	54.587	103.018	1.00	46.90	C
ATOM	2666	O	ARG	A	363	18.713	53.562	103.150	1.00	47.57	O
ATOM	2667	CB	ARG	A	363	18.664	56.878	102.217	1.00	51.44	C
ATOM	2668	CG	ARG	A	363	18.232	57.642	100.992	1.00	44.14	C
ATOM	2669	CD	ARG	A	363	18.212	59.136	101.160	1.00	50.08	C
ATOM	2670	NE	ARG	A	363	17.069	59.585	101.936	1.00	60.37	N
ATOM	2671	CZ	ARG	A	363	17.117	59.825	103.238	1.00	67.25	C
ATOM	2672	NH1	ARG	A	363	18.257	59.655	103.895	1.00	62.40	N
ATOM	2673	NH2	ARG	A	363	16.035	60.243	103.881	1.00	78.35	N
ATOM	2674	N	SER	A	364	20.322	54.944	103.874	1.00	47.63	N
ATOM	2675	CA	SER	A	364	20.572	54.123	105.046	1.00	52.53	C
ATOM	2676	C	SER	A	364	20.457	54.967	106.297	1.00	54.18	C
ATOM	2677	O	SER	A	364	20.946	56.093	106.341	1.00	60.34	O

ATOM	2678	CB	SER	A	364	21.958	53.479	104.976	1.00	59.39	C
ATOM	2679	OG	SER	A	364	22.984	54.452	104.893	1.00	72.85	O
ATOM	2680	N	TYR	A	365	19.780	54.429	107.303	1.00	55.27	N
ATOM	2681	CA	TYR	A	365	19.621	55.135	108.557	1.00	57.93	C
ATOM	2682	C	TYR	A	365	20.214	54.282	109.674	1.00	57.07	C
ATOM	2683	O	TYR	A	365	20.069	53.058	109.685	1.00	56.96	O
ATOM	2684	CB	TYR	A	365	18.147	55.431	108.832	1.00	57.81	C
ATOM	2685	CG	TYR	A	365	17.963	56.442	109.937	1.00	64.43	C
ATOM	2686	CD1	TYR	A	365	18.372	57.763	109.769	1.00	72.40	C
ATOM	2687	CD2	TYR	A	365	17.428	56.070	111.179	1.00	65.59	C
ATOM	2688	CE1	TYR	A	365	18.257	58.698	110.814	1.00	77.79	C
ATOM	2689	CE2	TYR	A	365	17.308	56.994	112.233	1.00	62.72	C
ATOM	2690	CZ	TYR	A	365	17.725	58.307	112.047	1.00	69.04	C
ATOM	2691	OH	TYR	A	365	17.618	59.225	113.080	1.00	60.28	O
ATOM	2692	N	THR	A	366	20.887	54.945	110.606	1.00	54.01	N
ATOM	2693	CA	THR	A	366	21.532	54.286	111.729	1.00	50.62	C
ATOM	2694	C	THR	A	366	21.223	55.015	113.036	1.00	51.78	C
ATOM	2695	O	THR	A	366	21.341	56.236	113.105	1.00	61.83	O
ATOM	2696	CB	THR	A	366	23.050	54.296	111.539	1.00	47.56	C
ATOM	2697	OG1	THR	A	366	23.489	55.645	111.339	1.00	54.98	O
ATOM	2698	CG2	THR	A	366	23.442	53.480	110.331	1.00	37.27	C
ATOM	2699	N	ILE	A	367	20.828	54.275	114.070	1.00	44.35	N
ATOM	2700	CA	ILE	A	367	20.538	54.882	115.377	1.00	43.01	C
ATOM	2701	C	ILE	A	367	21.113	54.118	116.562	1.00	44.48	C
ATOM	2702	O	ILE	A	367	21.527	52.956	116.437	1.00	51.46	O
ATOM	2703	CB	ILE	A	367	19.031	55.029	115.657	1.00	46.14	C
ATOM	2704	CG1	ILE	A	367	18.284	53.779	115.204	1.00	46.40	C
ATOM	2705	CG2	ILE	A	367	18.515	56.286	115.022	1.00	55.17	C
ATOM	2706	CD1	ILE	A	367	18.671	52.535	115.960	1.00	50.08	C
ATOM	2707	N	ALA	A	368	21.120	54.780	117.716	1.00	46.92	N
ATOM	2708	CA	ALA	A	368	21.628	54.182	118.937	1.00	53.37	C
ATOM	2709	C	ALA	A	368	20.604	53.228	119.552	1.00	52.95	C
ATOM	2710	O	ALA	A	368	19.672	53.648	120.233	1.00	55.58	O
ATOM	2711	CB	ALA	A	368	21.999	55.279	119.932	1.00	64.28	C
ATOM	2712	N	VAL	A	369	20.790	51.943	119.283	1.00	46.01	N
ATOM	2713	CA	VAL	A	369	19.939	50.891	119.813	1.00	36.78	C
ATOM	2714	C	VAL	A	369	19.413	51.278	121.187	1.00	31.16	C
ATOM	2715	O	VAL	A	369	18.230	51.110	121.502	1.00	23.65	O
ATOM	2716	CB	VAL	A	369	20.748	49.596	119.955	1.00	46.22	C
ATOM	2717	CG1	VAL	A	369	19.984	48.571	120.738	1.00	49.54	C
ATOM	2718	CG2	VAL	A	369	21.109	49.066	118.585	1.00	57.99	C
ATOM	2719	N	ALA	A	370	20.312	51.809	122.005	1.00	37.15	N
ATOM	2720	CA	ALA	A	370	19.975	52.231	123.356	1.00	46.82	C
ATOM	2721	C	ALA	A	370	18.860	53.269	123.383	1.00	49.03	C
ATOM	2722	O	ALA	A	370	17.741	52.972	123.794	1.00	54.27	O
ATOM	2723	CB	ALA	A	370	21.219	52.785	124.044	1.00	53.44	C
ATOM	2724	N	SER	A	371	19.171	54.481	122.932	1.00	46.02	N
ATOM	2725	CA	SER	A	371	18.196	55.563	122.930	1.00	49.13	C
ATOM	2726	C	SER	A	371	17.016	55.266	122.018	1.00	46.74	C
ATOM	2727	O	SER	A	371	16.569	56.136	121.285	1.00	51.75	O
ATOM	2728	CB	SER	A	371	18.861	56.882	122.515	1.00	49.25	C
ATOM	2729	OG	SER	A	371	19.222	56.878	121.148	1.00	46.67	O
ATOM	2730	N	LEU	A	372	16.511	54.038	122.072	1.00	43.25	N
ATOM	2731	CA	LEU	A	372	15.377	53.651	121.242	1.00	39.52	C
ATOM	2732	C	LEU	A	372	14.135	53.415	122.092	1.00	41.63	C
ATOM	2733	O	LEU	A	372	13.319	54.321	122.285	1.00	43.63	O
ATOM	2734	CB	LEU	A	372	15.698	52.382	120.440	1.00	38.36	C
ATOM	2735	CG	LEU	A	372	14.636	51.986	119.403	1.00	39.85	C
ATOM	2736	CD1	LEU	A	372	14.260	53.182	118.536	1.00	35.69	C
ATOM	2737	CD2	LEU	A	372	15.169	50.868	118.528	1.00	33.08	C
ATOM	2738	N	GLY	A	373	13.995	52.190	122.596	1.00	41.36	N
ATOM	2739	CA	GLY	A	373	12.847	51.847	123.423	1.00	42.44	C
ATOM	2740	C	GLY	A	373	12.892	52.616	124.718	1.00	43.08	C
ATOM	2741	O	GLY	A	373	12.973	52.027	125.792	1.00	41.04	O
ATOM	2742	N	LYS	A	374	12.854	53.940	124.601	1.00	42.62	N
ATOM	2743	CA	LYS	A	374	12.905	54.836	125.745	1.00	40.40	C
ATOM	2744	C	LYS	A	374	14.066	54.461	126.642	1.00	39.72	C
ATOM	2745	O	LYS	A	374	14.093	54.833	127.808	1.00	35.72	O
ATOM	2746	CB	LYS	A	374	11.596	54.773	126.528	1.00	43.36	C
ATOM	2747	CG	LYS	A	374	10.897	56.105	126.618	1.00	55.37	C
ATOM	2748	CD	LYS	A	374	9.446	55.945	127.032	1.00	70.29	C
ATOM	2749	CE	LYS	A	374	8.697	57.271	126.997	1.00	76.90	C
ATOM	2750	NZ	LYS	A	374	8.656	57.862	125.628	1.00	85.28	N
ATOM	2751	N	GLY	A	375	15.026	53.724	126.085	1.00	46.09	N
ATOM	2752	CA	GLY	A	375	16.187	53.298	126.843	1.00	45.98	C
ATOM	2753	C	GLY	A	375	16.051	51.895	127.397	1.00	44.25	C
ATOM	2754	O	GLY	A	375	17.045	51.196	127.567	1.00	42.54	O
ATOM	2755	N	VAL	A	376	14.815	51.484	127.670	1.00	44.63	N
ATOM	2756	CA	VAL	A	376	14.521	50.157	128.213	1.00	48.90	C



ATOM	2757	C	VAL	A	376	14.846	49.013	127.261	1.00	51.39	C
ATOM	2758	O	VAL	A	376	15.870	48.345	127.426	1.00	60.38	O
ATOM	2759	CB	VAL	A	376	13.044	50.024	128.596	1.00	51.69	C
ATOM	2760	CG1	VAL	A	376	12.742	48.595	129.011	1.00	56.12	C
ATOM	2761	CG2	VAL	A	376	12.723	50.982	129.715	1.00	60.19	C
ATOM	2762	N	ALA	A	377	13.965	48.771	126.289	1.00	48.99	N
ATOM	2763	CA	ALA	A	377	14.176	47.703	125.322	1.00	50.51	C
ATOM	2764	C	ALA	A	377	15.583	47.844	124.777	1.00	50.00	C
ATOM	2765	O	ALA	A	377	15.931	48.867	124.181	1.00	43.03	O
ATOM	2766	CB	ALA	A	377	13.170	47.800	124.202	1.00	55.85	C
ATOM	2767	N	CYS	A	378	16.381	46.803	125.012	1.00	54.41	N
ATOM	2768	CA	CYS	A	378	17.788	46.722	124.606	1.00	63.17	C
ATOM	2769	C	CYS	A	378	18.736	46.782	125.791	1.00	64.43	C
ATOM	2770	O	CYS	A	378	19.948	46.654	125.618	1.00	68.38	O
ATOM	2771	CB	CYS	A	378	18.160	47.836	123.647	1.00	63.34	C
ATOM	2772	SG	CYS	A	378	17.553	47.510	121.960	1.00	65.15	S
ATOM	2773	N	ASN	A	379	18.193	46.995	126.991	1.00	61.33	N
ATOM	2774	CA	ASN	A	379	19.024	47.033	128.192	1.00	63.54	C
ATOM	2775	C	ASN	A	379	18.918	45.680	128.858	1.00	65.33	C
ATOM	2776	O	ASN	A	379	17.886	45.344	129.434	1.00	62.68	O
ATOM	2777	CB	ASN	A	379	18.571	48.108	129.172	1.00	71.26	C
ATOM	2778	CG	ASN	A	379	19.666	48.475	130.157	1.00	81.14	C
ATOM	2779	OD1	ASN	A	379	20.752	48.878	129.749	1.00	80.80	O
ATOM	2780	ND2	ASN	A	379	19.393	48.332	131.453	1.00	90.99	N
ATOM	2781	N	PRO	A	380	19.978	44.870	128.752	1.00	65.49	N
ATOM	2782	CA	PRO	A	380	21.210	45.206	128.042	1.00	68.72	C
ATOM	2783	C	PRO	A	380	21.125	44.561	126.655	1.00	71.25	C
ATOM	2784	O	PRO	A	380	21.714	45.050	125.680	1.00	74.26	O
ATOM	2785	CB	PRO	A	380	22.266	44.567	128.920	1.00	63.37	C
ATOM	2786	CG	PRO	A	380	21.606	43.245	129.236	1.00	58.13	C
ATOM	2787	CD	PRO	A	380	20.133	43.592	129.464	1.00	65.64	C
ATOM	2788	N	ALA	A	381	20.381	43.455	126.590	1.00	69.39	N
ATOM	2789	CA	ALA	A	381	20.201	42.735	125.348	1.00	66.00	C
ATOM	2790	C	ALA	A	381	18.875	42.977	124.656	1.00	59.33	C
ATOM	2791	O	ALA	A	381	17.837	43.217	125.292	1.00	53.52	O
ATOM	2792	CB	ALA	A	381	20.417	41.248	125.572	1.00	75.68	C
ATOM	2793	N	CYS	A	382	18.952	42.874	123.331	1.00	57.68	N
ATOM	2794	CA	CYS	A	382	17.845	43.097	122.410	1.00	60.59	C
ATOM	2795	C	CYS	A	382	17.858	42.066	121.272	1.00	61.79	C
ATOM	2796	O	CYS	A	382	18.923	41.764	120.747	1.00	58.23	O
ATOM	2797	CB	CYS	A	382	18.022	44.483	121.775	1.00	61.16	C
ATOM	2798	SG	CYS	A	382	16.683	45.673	122.102	1.00	64.69	S
ATOM	2799	N	PHE	A	383	16.704	41.515	120.896	1.00	62.44	N
ATOM	2800	CA	PHE	A	383	16.664	40.620	119.745	1.00	65.46	C
ATOM	2801	C	PHE	A	383	15.710	41.246	118.740	1.00	63.82	C
ATOM	2802	O	PHE	A	383	14.504	41.287	118.950	1.00	61.15	O
ATOM	2803	CB	PHE	A	383	16.210	39.206	120.105	1.00	68.56	C
ATOM	2804	CG	PHE	A	383	16.467	38.203	119.002	1.00	76.53	C
ATOM	2805	CD1	PHE	A	383	17.697	38.185	118.339	1.00	74.30	C
ATOM	2806	CD2	PHE	A	383	15.493	37.281	118.625	1.00	85.67	C
ATOM	2807	CE1	PHE	A	383	17.948	37.277	117.322	1.00	78.20	C
ATOM	2808	CE2	PHE	A	383	15.741	36.362	117.600	1.00	88.13	C
ATOM	2809	CZ	PHE	A	383	16.967	36.361	116.956	1.00	85.05	C
ATOM	2810	N	ILE	A	384	16.270	41.731	117.641	1.00	61.06	N
ATOM	2811	CA	ILE	A	384	15.488	42.396	116.613	1.00	55.74	C
ATOM	2812	C	ILE	A	384	15.298	41.549	115.371	1.00	49.69	C
ATOM	2813	O	ILE	A	384	16.260	41.088	114.751	1.00	52.06	O
ATOM	2814	CB	ILE	A	384	16.169	43.677	116.179	1.00	60.45	C
ATOM	2815	CG1	ILE	A	384	16.669	44.418	117.408	1.00	57.21	C
ATOM	2816	CG2	ILE	A	384	15.218	44.509	115.343	1.00	59.27	C
ATOM	2817	CD1	ILE	A	384	17.616	45.539	117.089	1.00	53.54	C
ATOM	2818	N	THR	A	385	14.054	41.339	114.993	1.00	42.27	N
ATOM	2819	CA	THR	A	385	13.802	40.546	113.809	1.00	45.98	C
ATOM	2820	C	THR	A	385	13.050	41.451	112.841	1.00	38.79	C
ATOM	2821	O	THR	A	385	11.914	41.861	113.113	1.00	41.54	O
ATOM	2822	CB	THR	A	385	12.955	39.324	114.165	1.00	48.95	C
ATOM	2823	OG1	THR	A	385	11.600	39.731	114.386	1.00	60.41	O
ATOM	2824	CG2	THR	A	385	13.475	38.679	115.460	1.00	52.69	C
ATOM	2825	N	GLN	A	386	13.693	41.808	111.731	1.00	34.79	N
ATOM	2826	CA	GLN	A	386	13.023	42.677	110.781	1.00	35.28	C
ATOM	2827	C	GLN	A	386	11.727	41.981	110.476	1.00	39.22	C
ATOM	2828	O	GLN	A	386	11.722	40.810	110.138	1.00	40.71	O
ATOM	2829	CB	GLN	A	386	13.821	42.866	109.499	1.00	34.63	C
ATOM	2830	CG	GLN	A	386	13.158	43.880	108.566	1.00	34.28	C
ATOM	2831	CD	GLN	A	386	14.026	44.284	107.386	1.00	46.71	C
ATOM	2832	OE1	GLN	A	386	13.732	43.941	106.249	1.00	48.69	O
ATOM	2833	NE2	GLN	A	386	15.093	45.029	107.653	1.00	49.83	N
ATOM	2834	N	LEU	A	387	10.616	42.682	110.641	1.00	43.59	N
ATOM	2835	CA	LEU	A	387	9.322	42.060	110.402	1.00	39.83	C



ATOM	2836	C	LEU	A	387	8.754	42.574	109.107	1.00	38.85	C
ATOM	2837	O	LEU	A	387	7.693	42.126	108.675	1.00	34.66	O
ATOM	2838	CB	LEU	A	387	8.361	42.375	111.552	1.00	33.47	C
ATOM	2839	CG	LEU	A	387	7.307	41.314	111.857	1.00	41.41	C
ATOM	2840	CD1	LEU	A	387	7.998	39.995	112.168	1.00	43.33	C
ATOM	2841	CD2	LEU	A	387	6.451	41.754	113.042	1.00	41.38	C
ATOM	2842	N	LEU	A	388	9.478	43.509	108.492	1.00	40.99	N
ATOM	2843	CA	LEU	A	388	9.072	44.136	107.232	1.00	35.75	C
ATOM	2844	C	LEU	A	388	10.209	45.000	106.694	1.00	35.19	C
ATOM	2845	O	LEU	A	388	10.972	45.589	107.447	1.00	36.99	O
ATOM	2846	CB	LEU	A	388	7.828	44.988	107.452	1.00	33.28	C
ATOM	2847	CG	LEU	A	388	6.511	44.667	106.742	1.00	25.74	C
ATOM	2848	CD1	LEU	A	388	6.390	43.189	106.470	1.00	38.31	C
ATOM	2849	CD2	LEU	A	388	5.361	45.132	107.613	1.00	8.19	C
ATOM	2850	N	PRO	A	389	10.282	45.150	105.374	1.00	28.44	N
ATOM	2851	CA	PRO	A	389	9.391	44.522	104.403	1.00	30.70	C
ATOM	2852	C	PRO	A	389	9.762	43.081	104.051	1.00	44.42	C
ATOM	2853	O	PRO	A	389	9.282	42.550	103.049	1.00	50.46	O
ATOM	2854	CB	PRO	A	389	9.529	45.449	103.206	1.00	26.67	C
ATOM	2855	CG	PRO	A	389	11.014	45.718	103.228	1.00	16.13	C
ATOM	2856	CD	PRO	A	389	11.281	45.990	104.695	1.00	24.47	C
ATOM	2857	N	VAL	A	390	10.583	42.428	104.876	1.00	47.57	N
ATOM	2858	CA	VAL	A	390	11.014	41.060	104.559	1.00	49.10	C
ATOM	2859	C	VAL	A	390	11.239	40.095	105.724	1.00	51.10	C
ATOM	2860	O	VAL	A	390	11.924	39.078	105.595	1.00	56.56	O
ATOM	2861	CB	VAL	A	390	12.295	41.094	103.725	1.00	50.36	C
ATOM	2862	CG1	VAL	A	390	12.050	41.882	102.446	1.00	54.46	C
ATOM	2863	CG2	VAL	A	390	13.413	41.733	104.509	1.00	53.00	C
ATOM	2864	N	LYS	A	391	10.669	40.409	106.869	1.00	53.92	N
ATOM	2865	CA	LYS	A	391	10.813	39.520	108.008	1.00	60.85	C
ATOM	2866	C	LYS	A	391	12.118	38.709	107.999	1.00	61.60	C
ATOM	2867	O	LYS	A	391	12.127	37.511	107.688	1.00	60.62	O
ATOM	2868	CB	LYS	A	391	9.621	38.557	108.077	1.00	70.30	C
ATOM	2869	CG	LYS	A	391	9.581	37.752	109.393	1.00	73.84	C
ATOM	2870	CD	LYS	A	391	8.354	36.840	109.609	1.00	82.47	C
ATOM	2871	CE	LYS	A	391	8.162	36.436	111.105	1.00	78.17	C
ATOM	2872	NZ	LYS	A	391	8.786	35.089	111.446	1.00	72.08	N
ATOM	2873	N	ARG	A	392	13.211	39.377	108.350	1.00	65.79	N
ATOM	2874	CA	ARG	A	392	14.525	38.755	108.408	1.00	66.82	C
ATOM	2875	C	ARG	A	392	14.923	38.682	109.880	1.00	71.20	C
ATOM	2876	O	ARG	A	392	14.436	39.459	110.699	1.00	71.14	O
ATOM	2877	CB	ARG	A	392	15.542	39.599	107.632	1.00	62.17	C
ATOM	2878	CG	ARG	A	392	16.666	38.800	106.997	1.00	67.14	C
ATOM	2879	CD	ARG	A	392	17.945	39.615	106.871	1.00	73.94	C
ATOM	2880	NE	ARG	A	392	17.705	40.942	106.318	1.00	76.16	N
ATOM	2881	CZ	ARG	A	392	17.244	41.171	105.095	1.00	78.98	C
ATOM	2882	NH1	ARG	A	392	16.970	40.157	104.285	1.00	83.20	N
ATOM	2883	NH2	ARG	A	392	17.056	42.416	104.678	1.00	79.61	N
ATOM	2884	N	LYS	A	393	15.826	37.763	110.204	1.00	74.34	N
ATOM	2885	CA	LYS	A	393	16.272	37.567	111.581	1.00	74.32	C
ATOM	2886	C	LYS	A	393	17.596	38.236	111.894	1.00	71.12	C
ATOM	2887	O	LYS	A	393	18.653	37.631	111.738	1.00	72.31	O
ATOM	2888	CB	LYS	A	393	16.400	36.075	111.864	1.00	76.52	C
ATOM	2889	CG	LYS	A	393	15.440	35.517	112.894	1.00	81.26	C
ATOM	2890	CD	LYS	A	393	15.657	34.016	113.031	1.00	84.21	C
ATOM	2891	CE	LYS	A	393	14.564	33.355	113.854	1.00	84.12	C
ATOM	2892	NZ	LYS	A	393	14.722	31.869	113.887	1.00	82.65	N
ATOM	2893	N	LEU	A	394	17.548	39.482	112.344	1.00	64.44	N
ATOM	2894	CA	LEU	A	394	18.777	40.190	112.666	1.00	65.62	C
ATOM	2895	C	LEU	A	394	19.271	39.597	113.969	1.00	71.87	C
ATOM	2896	O	LEU	A	394	18.498	38.966	114.682	1.00	74.80	O
ATOM	2897	CB	LEU	A	394	18.479	41.673	112.818	1.00	61.06	C
ATOM	2898	CG	LEU	A	394	17.758	42.207	111.579	1.00	56.94	C
ATOM	2899	CD1	LEU	A	394	17.339	43.640	111.798	1.00	57.94	C
ATOM	2900	CD2	LEU	A	394	18.673	42.087	110.372	1.00	63.83	C
ATOM	2901	N	GLY	A	395	20.548	39.782	114.286	1.00	76.02	N
ATOM	2902	CA	GLY	A	395	21.085	39.223	115.522	1.00	73.17	C
ATOM	2903	C	GLY	A	395	20.680	39.890	116.826	1.00	65.34	C
ATOM	2904	O	GLY	A	395	19.613	40.494	116.925	1.00	57.67	O
ATOM	2905	N	PHE	A	396	21.540	39.776	117.835	1.00	63.13	N
ATOM	2906	CA	PHE	A	396	21.286	40.392	119.139	1.00	62.22	C
ATOM	2907	C	PHE	A	396	21.911	41.780	119.160	1.00	62.91	C
ATOM	2908	O	PHE	A	396	22.905	42.023	118.480	1.00	68.68	O
ATOM	2909	CB	PHE	A	396	21.903	39.557	120.259	1.00	61.44	C
ATOM	2910	CG	PHE	A	396	21.194	38.263	120.515	1.00	57.15	C
ATOM	2911	CD1	PHE	A	396	20.789	37.923	121.806	1.00	54.82	C
ATOM	2912	CD2	PHE	A	396	20.915	37.388	119.472	1.00	59.67	C
ATOM	2913	CE1	PHE	A	396	20.107	36.725	122.052	1.00	52.15	C
ATOM	2914	CE2	PHE	A	396	20.237	36.190	119.701	1.00	61.55	C

ATOM	2915	CZ	PHE	A	396	19.830	35.856	120.991	1.00	58.19	C
ATOM	2916	N	TYR	A	397	21.338	42.689	119.942	1.00	56.31	N
ATOM	2917	CA	TYR	A	397	21.862	44.049	120.035	1.00	51.12	C
ATOM	2918	C	TYR	A	397	22.132	44.491	121.470	1.00	50.69	C
ATOM	2919	O	TYR	A	397	21.259	44.430	122.331	1.00	51.70	O
ATOM	2920	CB	TYR	A	397	20.903	45.036	119.355	1.00	51.25	C
ATOM	2921	CG	TYR	A	397	20.898	44.941	117.840	1.00	47.50	C
ATOM	2922	CD1	TYR	A	397	20.283	43.874	117.183	1.00	44.72	C
ATOM	2923	CD2	TYR	A	397	21.560	45.891	117.067	1.00	49.23	C
ATOM	2924	CE1	TYR	A	397	20.336	43.757	115.801	1.00	47.21	C
ATOM	2925	CE2	TYR	A	397	21.620	45.782	115.686	1.00	47.77	C
ATOM	2926	CZ	TYR	A	397	21.011	44.715	115.056	1.00	49.51	C
ATOM	2927	OH	TYR	A	397	21.108	44.600	113.682	1.00	48.37	O
ATOM	2928	N	GLU	A	398	23.362	44.923	121.719	1.00	48.51	N
ATOM	2929	CA	GLU	A	398	23.760	45.391	123.037	1.00	51.18	C
ATOM	2930	C	GLU	A	398	23.351	46.838	123.202	1.00	49.09	C
ATOM	2931	O	GLU	A	398	23.194	47.559	122.216	1.00	45.06	O
ATOM	2932	CB	GLU	A	398	25.272	45.290	123.220	1.00	57.94	C
ATOM	2933	CG	GLU	A	398	25.725	44.056	123.957	1.00	71.18	C
ATOM	2934	CD	GLU	A	398	25.354	42.786	123.238	1.00	77.99	C
ATOM	2935	OE1	GLU	A	398	25.703	42.676	122.044	1.00	83.73	O
ATOM	2936	OE2	GLU	A	398	24.727	41.899	123.865	1.00	76.41	O
ATOM	2937	N	TRP	A	399	23.191	47.262	124.453	1.00	47.03	N
ATOM	2938	CA	TRP	A	399	22.792	48.631	124.750	1.00	50.15	C
ATOM	2939	C	TRP	A	399	23.728	49.619	124.043	1.00	54.33	C
ATOM	2940	O	TRP	A	399	23.350	50.753	123.751	1.00	58.30	O
ATOM	2941	CB	TRP	A	399	22.815	48.849	126.268	1.00	55.61	C
ATOM	2942	CG	TRP	A	399	22.007	50.024	126.770	1.00	57.12	C
ATOM	2943	CD1	TRP	A	399	20.647	50.184	126.701	1.00	54.16	C
ATOM	2944	CD2	TRP	A	399	22.511	51.181	127.447	1.00	62.24	C
ATOM	2945	NE1	TRP	A	399	20.277	51.367	127.296	1.00	56.16	N
ATOM	2946	CE2	TRP	A	399	21.401	52.000	127.760	1.00	65.34	C
ATOM	2947	CE3	TRP	A	399	23.794	51.606	127.818	1.00	62.19	C
ATOM	2948	CZ2	TRP	A	399	21.536	53.223	128.427	1.00	76.06	C
ATOM	2949	CZ3	TRP	A	399	23.929	52.823	128.481	1.00	69.98	C
ATOM	2950	CH2	TRP	A	399	22.803	53.617	128.778	1.00	76.99	C
ATOM	2951	N	THR	A	400	24.953	49.186	123.769	1.00	56.41	N
ATOM	2952	CA	THR	A	400	25.902	50.058	123.085	1.00	56.34	C
ATOM	2953	C	THR	A	400	25.811	49.815	121.583	1.00	59.91	C
ATOM	2954	O	THR	A	400	26.226	50.657	120.791	1.00	64.35	O
ATOM	2955	CB	THR	A	400	27.383	49.837	123.553	1.00	54.34	C
ATOM	2956	OG1	THR	A	400	27.846	48.544	123.148	1.00	45.99	O
ATOM	2957	CG2	THR	A	400	27.494	49.950	125.071	1.00	57.48	C
ATOM	2958	N	SER	A	401	25.265	48.662	121.199	1.00	58.74	N
ATOM	2959	CA	SER	A	401	25.121	48.327	119.789	1.00	52.36	C
ATOM	2960	C	SER	A	401	24.381	49.451	119.082	1.00	46.82	C
ATOM	2961	O	SER	A	401	23.467	50.057	119.639	1.00	56.74	O
ATOM	2962	CB	SER	A	401	24.361	47.014	119.617	1.00	53.66	C
ATOM	2963	OG	SER	A	401	25.156	45.930	120.048	1.00	66.24	O
ATOM	2964	N	ARG	A	402	24.806	49.737	117.858	1.00	37.82	N
ATOM	2965	CA	ARG	A	402	24.212	50.786	117.055	1.00	35.51	C
ATOM	2966	C	ARG	A	402	23.541	50.093	115.868	1.00	33.40	C
ATOM	2967	O	ARG	A	402	24.171	49.301	115.171	1.00	39.64	O
ATOM	2968	CB	ARG	A	402	25.311	51.744	116.592	1.00	35.13	C
ATOM	2969	CG	ARG	A	402	24.822	53.137	116.240	1.00	38.74	C
ATOM	2970	CD	ARG	A	402	25.977	54.027	115.780	1.00	46.52	C
ATOM	2971	NE	ARG	A	402	25.556	55.298	115.175	1.00	65.72	N
ATOM	2972	CZ	ARG	A	402	24.891	56.272	115.802	1.00	76.44	C
ATOM	2973	NH1	ARG	A	402	24.542	56.149	117.081	1.00	80.92	N
ATOM	2974	NH2	ARG	A	402	24.590	57.389	115.146	1.00	72.87	N
ATOM	2975	N	LEU	A	403	22.262	50.379	115.636	1.00	32.46	N
ATOM	2976	CA	LEU	A	403	21.544	49.728	114.538	1.00	39.75	C
ATOM	2977	C	LEU	A	403	21.524	50.458	113.194	1.00	47.84	C
ATOM	2978	O	LEU	A	403	21.198	51.645	113.119	1.00	53.11	O
ATOM	2979	CB	LEU	A	403	20.112	49.414	114.967	1.00	34.32	C
ATOM	2980	CG	LEU	A	403	19.110	49.102	113.850	1.00	23.74	C
ATOM	2981	CD1	LEU	A	403	19.665	48.111	112.814	1.00	34.79	C
ATOM	2982	CD2	LEU	A	403	17.871	48.552	114.512	1.00	16.75	C
ATOM	2983	N	ARG	A	404	21.856	49.734	112.126	1.00	51.96	N
ATOM	2984	CA	ARG	A	404	21.877	50.330	110.801	1.00	61.16	C
ATOM	2985	C	ARG	A	404	21.007	49.571	109.835	1.00	61.63	C
ATOM	2986	O	ARG	A	404	20.941	48.345	109.865	1.00	62.38	O
ATOM	2987	CB	ARG	A	404	23.299	50.360	110.262	1.00	77.33	C
ATOM	2988	CG	ARG	A	404	23.395	50.669	108.777	1.00	93.31	C
ATOM	2989	CD	ARG	A	404	24.842	50.752	108.330	1.00	104.56	C
ATOM	2990	NE	ARG	A	404	24.958	51.122	106.924	1.00	108.36	N
ATOM	2991	CZ	ARG	A	404	26.087	51.518	106.347	1.00	110.69	C
ATOM	2992	NH1	ARG	A	404	27.207	51.596	107.054	1.00	113.17	N
ATOM	2993	NH2	ARG	A	404	26.092	51.853	105.065	1.00	115.15	N

ATOM	2994	N	SER	A	405	20.345	50.311	108.960	1.00	65.87	N
ATOM	2995	CA	SER	A	405	19.487	49.692	107.965	1.00	64.24	C
ATOM	2996	C	SER	A	405	19.162	50.670	106.840	1.00	59.61	C
ATOM	2997	O	SER	A	405	19.135	51.885	107.051	1.00	58.40	O
ATOM	2998	CB	SER	A	405	18.202	49.202	108.629	1.00	64.50	C
ATOM	2999	OG	SER	A	405	17.527	48.275	107.799	1.00	70.73	O
ATOM	3000	N	HIS	A	406	18.931	50.127	105.647	1.00	53.12	N
ATOM	3001	CA	HIS	A	406	18.595	50.934	104.481	1.00	46.56	C
ATOM	3002	C	HIS	A	406	17.068	50.925	104.277	1.00	35.83	C
ATOM	3003	O	HIS	A	406	16.404	49.910	104.503	1.00	29.57	O
ATOM	3004	CB	HIS	A	406	19.293	50.392	103.228	1.00	48.87	C
ATOM	3005	CG	HIS	A	406	20.771	50.232	103.374	1.00	54.29	C
ATOM	3006	ND1	HIS	A	406	21.673	50.862	102.543	1.00	45.66	N
ATOM	3007	CD2	HIS	A	406	21.505	49.497	104.243	1.00	61.18	C
ATOM	3008	CE1	HIS	A	406	22.899	50.521	102.894	1.00	56.81	C
ATOM	3009	NE2	HIS	A	406	22.825	49.694	103.924	1.00	64.48	N
ATOM	3010	N	ILE	A	407	16.517	52.055	103.843	1.00	33.33	N
ATOM	3011	CA	ILE	A	407	15.079	52.185	103.648	1.00	27.22	C
ATOM	3012	C	ILE	A	407	14.763	52.762	102.278	1.00	27.16	C
ATOM	3013	O	ILE	A	407	15.310	53.800	101.900	1.00	32.16	O
ATOM	3014	CB	ILE	A	407	14.498	53.124	104.715	1.00	23.67	C
ATOM	3015	CG1	ILE	A	407	14.838	52.598	106.109	1.00	16.69	C
ATOM	3016	CG2	ILE	A	407	12.999	53.262	104.531	1.00	29.79	C
ATOM	3017	CD1	ILE	A	407	14.805	53.660	107.162	1.00	26.25	C
ATOM	3018	N	ASN	A	408	13.864	52.105	101.545	1.00	26.02	N
ATOM	3019	CA	ASN	A	408	13.477	52.564	100.198	1.00	28.35	C
ATOM	3020	C	ASN	A	408	12.636	53.842	100.237	1.00	25.53	C
ATOM	3021	O	ASN	A	408	11.939	54.105	101.224	1.00	19.57	O
ATOM	3022	CB	ASN	A	408	12.662	51.492	99.445	1.00	31.03	C
ATOM	3023	CG	ASN	A	408	13.443	50.213	99.200	1.00	34.57	C
ATOM	3024	OD1	ASN	A	408	14.671	50.232	99.080	1.00	53.90	O
ATOM	3025	ND2	ASN	A	408	12.732	49.094	99.099	1.00	23.17	N
ATOM	3026	N	PRO	A	409	12.695	54.655	99.161	1.00	25.66	N
ATOM	3027	CA	PRO	A	409	11.926	55.903	99.075	1.00	25.52	C
ATOM	3028	C	PRO	A	409	10.425	55.646	99.285	1.00	25.11	C
ATOM	3029	O	PRO	A	409	9.847	54.751	98.667	1.00	19.70	O
ATOM	3030	CB	PRO	A	409	12.236	56.402	97.661	1.00	26.57	C
ATOM	3031	CG	PRO	A	409	13.641	55.958	97.458	1.00	30.00	C
ATOM	3032	CD	PRO	A	409	13.613	54.536	98.012	1.00	27.07	C
ATOM	3033	N	THR	A	410	9.811	56.438	100.160	1.00	25.25	N
ATOM	3034	CA	THR	A	410	8.389	56.323	100.490	1.00	21.37	C
ATOM	3035	C	THR	A	410	8.057	54.967	101.118	1.00	24.99	C
ATOM	3036	O	THR	A	410	6.888	54.650	101.346	1.00	19.45	O
ATOM	3037	CB	THR	A	410	7.481	56.535	99.248	1.00	11.71	C
ATOM	3038	OG1	THR	A	410	7.290	55.293	98.556	1.00	6.84	O
ATOM	3039	CG2	THR	A	410	8.111	57.544	98.297	1.00	18.20	C
ATOM	3040	N	GLY	A	411	9.094	54.176	101.394	1.00	28.42	N
ATOM	3041	CA	GLY	A	411	8.908	52.870	102.000	1.00	34.59	C
ATOM	3042	C	GLY	A	411	9.056	52.916	103.518	1.00	38.12	C
ATOM	3043	O	GLY	A	411	9.206	53.994	104.109	1.00	30.75	O
ATOM	3044	N	THR	A	412	9.017	51.744	104.153	1.00	35.64	N
ATOM	3045	CA	THR	A	412	9.139	51.650	105.604	1.00	24.91	C
ATOM	3046	C	THR	A	412	9.714	50.310	106.065	1.00	34.60	C
ATOM	3047	O	THR	A	412	9.342	49.262	105.537	1.00	43.97	O
ATOM	3048	CB	THR	A	412	7.769	51.824	106.262	1.00	17.00	C
ATOM	3049	OG1	THR	A	412	7.159	53.015	105.761	1.00	12.89	O
ATOM	3050	CG2	THR	A	412	7.904	51.916	107.786	1.00	20.31	C
ATOM	3051	N	VAL	A	413	10.626	50.348	107.036	1.00	35.58	N
ATOM	3052	CA	VAL	A	413	11.212	49.132	107.591	1.00	35.35	C
ATOM	3053	C	VAL	A	413	10.678	48.975	109.005	1.00	37.44	C
ATOM	3054	O	VAL	A	413	10.978	49.774	109.889	1.00	40.54	O
ATOM	3055	CB	VAL	A	413	12.738	49.194	107.672	1.00	31.35	C
ATOM	3056	CG1	VAL	A	413	13.255	48.030	108.500	1.00	32.15	C
ATOM	3057	CG2	VAL	A	413	13.331	49.134	106.285	1.00	38.55	C
ATOM	3058	N	LEU	A	414	9.876	47.940	109.205	1.00	34.54	N
ATOM	3059	CA	LEU	A	414	9.262	47.657	110.494	1.00	27.00	C
ATOM	3060	C	LEU	A	414	10.077	46.645	111.273	1.00	25.79	C
ATOM	3061	O	LEU	A	414	10.373	45.560	110.761	1.00	25.63	O
ATOM	3062	CB	LEU	A	414	7.865	47.099	110.270	1.00	25.75	C
ATOM	3063	CG	LEU	A	414	7.129	46.677	111.528	1.00	26.71	C
ATOM	3064	CD1	LEU	A	414	7.074	47.856	112.492	1.00	25.98	C
ATOM	3065	CD2	LEU	A	414	5.732	46.196	111.139	1.00	23.70	C
ATOM	3066	N	LEU	A	415	10.418	46.989	112.511	1.00	20.72	N
ATOM	3067	CA	LEU	A	415	11.212	46.105	113.349	1.00	25.29	C
ATOM	3068	C	LEU	A	415	10.501	45.751	114.611	1.00	35.11	C
ATOM	3069	O	LEU	A	415	9.619	46.473	115.058	1.00	40.83	O
ATOM	3070	CB	LEU	A	415	12.512	46.774	113.739	1.00	26.14	C
ATOM	3071	CG	LEU	A	415	13.445	47.042	112.580	1.00	35.73	C
ATOM	3072	CD1	LEU	A	415	14.630	47.860	113.057	1.00	32.15	C

ATOM	3073	CD2	LEU	A	415	13.881	45.711	112.002	1.00	31.51	C
ATOM	3074	N	GLN	A	416	10.909	44.636	115.199	1.00	45.21	N
ATOM	3075	CA	GLN	A	416	10.342	44.187	116.465	1.00	49.37	C
ATOM	3076	C	GLN	A	416	11.462	43.750	117.400	1.00	49.32	C
ATOM	3077	O	GLN	A	416	12.252	42.856	117.085	1.00	54.45	O
ATOM	3078	CB	GLN	A	416	9.384	43.035	116.262	1.00	53.69	C
ATOM	3079	CG	GLN	A	416	8.851	42.500	117.555	1.00	61.76	C
ATOM	3080	CD	GLN	A	416	7.948	41.319	117.342	1.00	70.07	C
ATOM	3081	OE1	GLN	A	416	6.852	41.463	116.827	1.00	69.41	O
ATOM	3082	NE2	GLN	A	416	8.412	40.138	117.716	1.00	71.96	N
ATOM	3083	N	LEU	A	417	11.530	44.405	118.551	1.00	44.33	N
ATOM	3084	CA	LEU	A	417	12.565	44.134	119.532	1.00	39.55	C
ATOM	3085	C	LEU	A	417	12.102	43.382	120.757	1.00	43.96	C
ATOM	3086	O	LEU	A	417	11.068	43.702	121.354	1.00	47.68	O
ATOM	3087	CB	LEU	A	417	13.193	45.435	120.005	1.00	28.58	C
ATOM	3088	CG	LEU	A	417	13.889	46.296	118.965	1.00	23.76	C
ATOM	3089	CD1	LEU	A	417	12.937	46.722	117.871	1.00	23.16	C
ATOM	3090	CD2	LEU	A	417	14.412	47.510	119.678	1.00	37.98	C
ATOM	3091	N	GLU	A	418	12.930	42.406	121.129	1.00	50.78	N
ATOM	3092	CA	GLU	A	418	12.740	41.544	122.294	1.00	56.06	C
ATOM	3093	C	GLU	A	418	13.886	41.795	123.273	1.00	52.73	C
ATOM	3094	O	GLU	A	418	15.048	41.847	122.883	1.00	52.36	O
ATOM	3095	CB	GLU	A	418	12.778	40.072	121.878	1.00	73.81	C
ATOM	3096	CG	GLU	A	418	11.697	39.660	120.905	1.00	81.37	C
ATOM	3097	CD	GLU	A	418	10.318	39.968	121.434	1.00	88.26	C
ATOM	3098	OE1	GLU	A	418	10.067	39.684	122.624	1.00	88.90	O
ATOM	3099	OE2	GLU	A	418	9.485	40.487	120.664	1.00	92.72	O
ATOM	3100	N	ASN	A	419	13.561	41.929	124.547	1.00	51.08	N
ATOM	3101	CA	ASN	A	419	14.575	42.170	125.563	1.00	62.26	C
ATOM	3102	C	ASN	A	419	15.010	40.832	126.204	1.00	72.70	C
ATOM	3103	O	ASN	A	419	14.160	40.013	126.549	1.00	77.62	O
ATOM	3104	CB	ASN	A	419	13.983	43.109	126.607	1.00	61.20	C
ATOM	3105	CG	ASN	A	419	15.024	43.718	127.495	1.00	66.62	C
ATOM	3106	OD1	ASN	A	419	15.714	43.022	128.242	1.00	68.87	O
ATOM	3107	ND2	ASN	A	419	15.149	45.036	127.426	1.00	72.89	N
ATOM	3108	N	THR	A	420	16.317	40.608	126.367	1.00	81.68	N
ATOM	3109	CA	THR	A	420	16.818	39.351	126.947	1.00	90.74	C
ATOM	3110	C	THR	A	420	16.281	38.983	128.332	1.00	104.05	C
ATOM	3111	O	THR	A	420	16.454	37.848	128.782	1.00	110.21	O
ATOM	3112	CB	THR	A	420	18.366	39.333	126.998	1.00	81.03	C
ATOM	3113	OG1	THR	A	420	18.869	39.041	125.693	1.00	75.62	O
ATOM	3114	CG2	THR	A	420	18.886	38.272	127.975	1.00	77.69	C
ATOM	3115	N	MET	A	421	15.627	39.931	128.998	1.00	113.95	N
ATOM	3116	CA	MET	A	421	15.065	39.705	130.331	1.00	120.80	C
ATOM	3117	C	MET	A	421	15.982	38.870	131.225	1.00	123.07	C
ATOM	3118	O	MET	A	421	16.695	39.399	132.082	1.00	123.93	O
ATOM	3119	CB	MET	A	421	13.688	39.024	130.230	1.00	125.37	C
ATOM	3120	CG	MET	A	421	13.707	37.568	129.761	1.00	132.66	C
ATOM	3121	SD	MET	A	421	13.245	37.319	128.032	1.00	139.40	S
ATOM	3122	CE	MET	A	421	11.455	37.308	128.169	1.00	140.66	C
TER	3123		MET	A	421						

## CHAIN B

	Atom									
	Type	Resid	#	X	Y	Z	OCC	B		
ATOM	3124	N	LEU B	32	18.182	70.054	66.135	1.00	79.74	N
ATOM	3125	CA	LEU B	32	19.509	70.198	65.474	1.00	75.16	C
ATOM	3126	C	LEU B	32	19.643	69.164	64.364	1.00	74.82	C
ATOM	3127	O	LEU B	32	19.674	67.959	64.622	1.00	74.40	O
ATOM	3128	CB	LEU B	32	20.631	70.015	66.499	1.00	69.65	C
ATOM	3129	CG	LEU B	32	22.052	70.032	65.945	1.00	63.79	C
ATOM	3130	CD1	LEU B	32	22.277	71.300	65.142	1.00	69.05	C
ATOM	3131	CD2	LEU B	32	23.037	69.926	67.088	1.00	60.38	C
ATOM	3132	N	ASP B	33	19.718	69.637	63.127	1.00	75.12	N
ATOM	3133	CA	ASP B	33	19.829	68.743	61.980	1.00	77.12	C
ATOM	3134	C	ASP B	33	21.250	68.235	61.775	1.00	73.83	C
ATOM	3135	O	ASP B	33	21.982	68.735	60.929	1.00	79.11	O
ATOM	3136	CB	ASP B	33	19.331	69.453	60.719	1.00	84.26	C
ATOM	3137	CG	ASP B	33	19.411	68.578	59.477	1.00	92.75	C
ATOM	3138	OD1	ASP B	33	20.533	68.328	58.990	1.00	96.10	O
ATOM	3139	OD2	ASP B	33	18.348	68.142	58.982	1.00	101.06	O
ATOM	3140	N	ASN B	34	21.631	67.237	62.565	1.00	68.75	N
ATOM	3141	CA	ASN B	34	22.955	66.629	62.490	1.00	61.95	C
ATOM	3142	C	ASN B	34	22.745	65.183	62.084	1.00	61.51	C
ATOM	3143	O	ASN B	34	23.643	64.354	62.194	1.00	62.64	O
ATOM	3144	CB	ASN B	34	23.625	66.670	63.860	1.00	60.52	C
ATOM	3145	CG	ASN B	34	22.702	66.183	64.965	1.00	60.45	C
ATOM	3146	OD1	ASN B	34	21.873	65.300	64.744	1.00	75.84	O

ATOM	3147	ND2	ASN	B	34	22.846	66.751	66.159	1.00	52.80	N
ATOM	3148	N	GLY	B	35	21.536	64.889	61.624	1.00	59.99	N
ATOM	3149	CA	GLY	B	35	21.211	63.539	61.222	1.00	56.70	C
ATOM	3150	C	GLY	B	35	21.134	62.635	62.432	1.00	51.54	C
ATOM	3151	O	GLY	B	35	21.241	61.417	62.310	1.00	50.80	O
ATOM	3152	N	LEU	B	36	20.965	63.236	63.606	1.00	50.80	N
ATOM	3153	CA	LEU	B	36	20.868	62.473	64.841	1.00	53.80	C
ATOM	3154	C	LEU	B	36	19.532	62.692	65.510	1.00	55.66	C
ATOM	3155	O	LEU	B	36	18.915	63.752	65.374	1.00	54.78	O
ATOM	3156	CB	LEU	B	36	21.981	62.851	65.817	1.00	55.51	C
ATOM	3157	CG	LEU	B	36	23.391	62.428	65.431	1.00	61.24	C
ATOM	3158	CD1	LEU	B	36	24.307	62.620	66.627	1.00	69.17	C
ATOM	3159	CD2	LEU	B	36	23.388	60.968	64.995	1.00	64.69	C
ATOM	3160	N	ALA	B	37	19.094	61.682	66.249	1.00	55.44	N
ATOM	3161	CA	ALA	B	37	17.823	61.773	66.924	1.00	56.47	C
ATOM	3162	C	ALA	B	37	16.770	62.027	65.857	1.00	55.07	C
ATOM	3163	O	ALA	B	37	16.046	63.024	65.910	1.00	61.48	O
ATOM	3164	CB	ALA	B	37	17.841	62.910	67.929	1.00	48.50	C
ATOM	3165	N	ARG	B	38	16.715	61.141	64.864	1.00	52.66	N
ATOM	3166	CA	ARG	B	38	15.710	61.260	63.818	1.00	54.70	C
ATOM	3167	C	ARG	B	38	14.532	60.514	64.402	1.00	53.28	C
ATOM	3168	O	ARG	B	38	13.529	60.268	63.745	1.00	56.89	O
ATOM	3169	CB	ARG	B	38	16.150	60.591	62.511	1.00	60.48	C
ATOM	3170	CG	ARG	B	38	17.485	61.061	61.940	1.00	67.93	C
ATOM	3171	CD	ARG	B	38	17.698	62.565	62.071	1.00	73.20	C
ATOM	3172	NE	ARG	B	38	16.750	63.366	61.302	1.00	75.02	N
ATOM	3173	CZ	ARG	B	38	16.732	64.698	61.314	1.00	75.84	C
ATOM	3174	NH1	ARG	B	38	17.607	65.368	62.054	1.00	71.97	N
ATOM	3175	NH2	ARG	B	38	15.847	65.365	60.587	1.00	71.94	N
ATOM	3176	N	THR	B	39	14.708	60.145	65.663	1.00	49.27	N
ATOM	3177	CA	THR	B	39	13.718	59.444	66.473	1.00	48.97	C
ATOM	3178	C	THR	B	39	14.065	59.752	67.930	1.00	45.13	C
ATOM	3179	O	THR	B	39	15.234	59.923	68.281	1.00	41.30	O
ATOM	3180	CB	THR	B	39	13.784	57.923	66.284	1.00	51.41	C
ATOM	3181	OG1	THR	B	39	15.090	57.453	66.642	1.00	53.32	O
ATOM	3182	CG2	THR	B	39	13.491	57.557	64.849	1.00	53.48	C
ATOM	3183	N	PRO	B	40	13.052	59.838	68.797	1.00	43.40	N
ATOM	3184	CA	PRO	B	40	13.339	60.129	70.203	1.00	44.54	C
ATOM	3185	C	PRO	B	40	14.477	59.233	70.712	1.00	42.84	C
ATOM	3186	O	PRO	B	40	14.403	58.011	70.602	1.00	41.51	O
ATOM	3187	CB	PRO	B	40	12.008	59.833	70.884	1.00	43.15	C
ATOM	3188	CG	PRO	B	40	10.994	60.182	69.811	1.00	45.82	C
ATOM	3189	CD	PRO	B	40	11.614	59.597	68.575	1.00	43.19	C
ATOM	3190	N	THR	B	41	15.532	59.845	71.246	1.00	39.69	N
ATOM	3191	CA	THR	B	41	16.688	59.104	71.762	1.00	34.79	C
ATOM	3192	C	THR	B	41	16.260	58.125	72.854	1.00	34.75	C
ATOM	3193	O	THR	B	41	15.420	58.464	73.688	1.00	39.58	O
ATOM	3194	CB	THR	B	41	17.722	60.046	72.405	1.00	29.69	C
ATOM	3195	OG1	THR	B	41	17.911	61.195	71.577	1.00	41.03	O
ATOM	3196	CG2	THR	B	41	19.049	59.326	72.584	1.00	27.40	C
ATOM	3197	N	MET	B	42	16.844	56.926	72.866	1.00	31.56	N
ATOM	3198	CA	MET	B	42	16.520	55.931	73.890	1.00	30.99	C
ATOM	3199	C	MET	B	42	17.766	55.515	74.667	1.00	25.79	C
ATOM	3200	O	MET	B	42	18.777	55.121	74.066	1.00	22.58	O
ATOM	3201	CB	MET	B	42	15.900	54.697	73.256	1.00	31.64	C
ATOM	3202	CG	MET	B	42	14.675	54.994	72.465	1.00	30.50	C
ATOM	3203	SD	MET	B	42	13.927	53.466	71.905	1.00	35.34	S
ATOM	3204	CE	MET	B	42	13.193	52.944	73.482	1.00	33.78	C
ATOM	3205	N	GLY	B	43	17.683	55.585	75.997	1.00	17.55	N
ATOM	3206	CA	GLY	B	43	18.814	55.216	76.821	1.00	10.11	C
ATOM	3207	C	GLY	B	43	18.537	55.205	78.314	1.00	20.21	C
ATOM	3208	O	GLY	B	43	17.388	55.113	78.740	1.00	26.95	O
ATOM	3209	N	TRP	B	44	19.607	55.307	79.105	1.00	24.35	N
ATOM	3210	CA	TRP	B	44	19.535	55.295	80.562	1.00	21.41	C
ATOM	3211	C	TRP	B	44	20.361	56.447	81.108	1.00	19.25	C
ATOM	3212	O	TRP	B	44	21.407	56.785	80.560	1.00	17.63	O
ATOM	3213	CB	TRP	B	44	20.093	53.977	81.089	1.00	16.55	C
ATOM	3214	CG	TRP	B	44	19.981	53.771	82.580	1.00	14.71	C
ATOM	3215	CD1	TRP	B	44	18.878	53.325	83.271	1.00	24.41	C
ATOM	3216	CD2	TRP	B	44	21.010	53.979	83.564	1.00	12.56	C
ATOM	3217	NE1	TRP	B	44	19.159	53.240	84.622	1.00	21.86	N
ATOM	3218	CE2	TRP	B	44	20.456	53.637	84.831	1.00	19.49	C
ATOM	3219	CE3	TRP	B	44	22.340	54.421	83.501	1.00	3.31	C
ATOM	3220	CZ2	TRP	B	44	21.192	53.729	86.028	1.00	18.23	C
ATOM	3221	CZ3	TRP	B	44	23.069	54.508	84.685	1.00	18.81	C
ATOM	3222	CH2	TRP	B	44	22.491	54.164	85.934	1.00	21.72	C
ATOM	3223	N	LEU	B	45	19.891	57.041	82.193	1.00	14.32	N
ATOM	3224	CA	LEU	B	45	20.585	58.151	82.800	1.00	12.02	C
ATOM	3225	C	LEU	B	45	20.518	57.949	84.298	1.00	11.86	C

ATOM	3226	O	LEU	B	45	19.446	57.871	84.893	1.00	9.20	O
ATOM	3227	CB	LEU	B	45	19.912	59.452	82.403	1.00	18.50	C
ATOM	3228	CG	LEU	B	45	20.723	60.735	82.556	1.00	20.48	C
ATOM	3229	CD1	LEU	B	45	19.788	61.910	82.353	1.00	38.29	C
ATOM	3230	CD2	LEU	B	45	21.364	60.820	83.931	1.00	26.67	C
ATOM	3231	N	HIS	B	46	21.688	57.888	84.905	1.00	15.42	N
ATOM	3232	CA	HIS	B	46	21.811	57.646	86.324	1.00	17.99	C
ATOM	3233	C	HIS	B	46	21.165	58.639	87.262	1.00	20.83	C
ATOM	3234	O	HIS	B	46	20.859	58.283	88.400	1.00	18.34	O
ATOM	3235	CB	HIS	B	46	23.291	57.539	86.687	1.00	20.83	C
ATOM	3236	CG	HIS	B	46	23.894	58.830	87.147	1.00	34.82	C
ATOM	3237	ND1	HIS	B	46	23.752	59.300	88.435	1.00	42.63	N
ATOM	3238	CD2	HIS	B	46	24.626	59.759	86.488	1.00	36.96	C
ATOM	3239	CE1	HIS	B	46	24.372	60.461	88.550	1.00	44.35	C
ATOM	3240	NE2	HIS	B	46	24.911	60.763	87.383	1.00	43.02	N
ATOM	3241	N	TRP	B	47	20.925	59.867	86.822	1.00	19.71	N
ATOM	3242	CA	TRP	B	47	20.398	60.848	87.770	1.00	28.76	C
ATOM	3243	C	TRP	B	47	19.337	60.464	88.817	1.00	27.27	C
ATOM	3244	O	TRP	B	47	19.682	60.183	89.960	1.00	21.13	O
ATOM	3245	CB	TRP	B	47	19.935	62.126	87.074	1.00	34.47	C
ATOM	3246	CG	TRP	B	47	19.839	63.234	88.093	1.00	44.39	C
ATOM	3247	CD1	TRP	B	47	18.726	63.955	88.437	1.00	50.83	C
ATOM	3248	CD2	TRP	B	47	20.883	63.679	88.960	1.00	40.85	C
ATOM	3249	NE1	TRP	B	47	19.017	64.813	89.469	1.00	53.15	N
ATOM	3250	CE2	TRP	B	47	20.334	64.659	89.812	1.00	43.61	C
ATOM	3251	CE3	TRP	B	47	22.229	63.334	89.109	1.00	37.21	C
ATOM	3252	CZ2	TRP	B	47	21.089	65.307	90.790	1.00	42.53	C
ATOM	3253	CZ3	TRP	B	47	22.977	63.975	90.077	1.00	43.26	C
ATOM	3254	CH2	TRP	B	47	22.404	64.948	90.910	1.00	43.64	C
ATOM	3255	N	GLU	B	48	18.059	60.456	88.443	1.00	26.18	N
ATOM	3256	CA	GLU	B	48	16.992	60.161	89.403	1.00	26.94	C
ATOM	3257	C	GLU	B	48	17.236	58.982	90.336	1.00	26.40	C
ATOM	3258	O	GLU	B	48	16.961	59.074	91.540	1.00	32.83	O
ATOM	3259	CB	GLU	B	48	15.644	59.960	88.688	1.00	23.59	C
ATOM	3260	CG	GLU	B	48	14.398	60.028	89.619	1.00	21.37	C
ATOM	3261	CD	GLU	B	48	14.277	58.855	90.596	1.00	30.24	C
ATOM	3262	OE1	GLU	B	48	14.155	57.704	90.140	1.00	25.42	O
ATOM	3263	OE2	GLU	B	48	14.293	59.078	91.825	1.00	31.90	O
ATOM	3264	N	ARG	B	49	17.764	57.886	89.797	1.00	18.46	N
ATOM	3265	CA	ARG	B	49	17.980	56.690	90.604	1.00	20.46	C
ATOM	3266	C	ARG	B	49	19.190	56.682	91.510	1.00	16.99	C
ATOM	3267	O	ARG	B	49	19.225	55.945	92.491	1.00	9.54	O
ATOM	3268	CB	ARG	B	49	18.036	55.455	89.702	1.00	27.12	C
ATOM	3269	CG	ARG	B	49	18.027	54.142	90.465	1.00	24.47	C
ATOM	3270	CD	ARG	B	49	16.855	54.085	91.440	1.00	39.57	C
ATOM	3271	NE	ARG	B	49	16.607	52.717	91.874	1.00	46.87	N
ATOM	3272	CZ	ARG	B	49	17.402	52.033	92.687	1.00	47.11	C
ATOM	3273	NH1	ARG	B	49	18.500	52.594	93.173	1.00	45.74	N
ATOM	3274	NH2	ARG	B	49	17.112	50.774	92.983	1.00	51.18	N
ATOM	3275	N	PHE	B	50	20.175	57.506	91.187	1.00	14.61	N
ATOM	3276	CA	PHE	B	50	21.394	57.538	91.973	1.00	21.31	C
ATOM	3277	C	PHE	B	50	21.879	58.925	92.369	1.00	31.87	C
ATOM	3278	O	PHE	B	50	22.846	59.062	93.120	1.00	37.81	O
ATOM	3279	CB	PHE	B	50	22.480	56.789	91.201	1.00	19.77	C
ATOM	3280	CG	PHE	B	50	22.172	55.332	91.017	1.00	26.51	C
ATOM	3281	CD1	PHE	B	50	22.492	54.405	92.004	1.00	34.38	C
ATOM	3282	CD2	PHE	B	50	21.506	54.892	89.884	1.00	18.64	C
ATOM	3283	CE1	PHE	B	50	22.144	53.061	91.857	1.00	39.33	C
ATOM	3284	CE2	PHE	B	50	21.153	53.545	89.726	1.00	24.72	C
ATOM	3285	CZ	PHE	B	50	21.472	52.630	90.710	1.00	30.82	C
ATOM	3286	N	MET	B	51	21.205	59.950	91.864	1.00	43.78	N
ATOM	3287	CA	MET	B	51	21.568	61.325	92.164	1.00	47.32	C
ATOM	3288	C	MET	B	51	23.076	61.517	92.228	1.00	48.94	C
ATOM	3289	O	MET	B	51	23.821	60.934	91.447	1.00	46.96	O
ATOM	3290	CB	MET	B	51	20.959	61.738	93.488	1.00	43.64	C
ATOM	3291	CG	MET	B	51	19.499	61.462	93.581	1.00	36.00	C
ATOM	3292	SD	MET	B	51	18.929	62.237	95.051	1.00	43.28	S
ATOM	3293	CE	MET	B	51	18.299	63.762	94.379	1.00	50.05	C
ATOM	3294	N	CYS	B	52	23.517	62.332	93.176	1.00	49.70	N
ATOM	3295	CA	CYS	B	52	24.931	62.623	93.338	1.00	54.28	C
ATOM	3296	C	CYS	B	52	25.512	61.922	94.552	1.00	56.80	C
ATOM	3297	O	CYS	B	52	25.890	62.565	95.530	1.00	53.20	O
ATOM	3298	CB	CYS	B	52	25.119	64.124	93.478	1.00	57.48	C
ATOM	3299	SG	CYS	B	52	26.853	64.677	93.566	1.00	73.77	S
ATOM	3300	N	ASN	B	53	25.591	60.600	94.476	1.00	59.82	N
ATOM	3301	CA	ASN	B	53	26.111	59.793	95.571	1.00	60.46	C
ATOM	3302	C	ASN	B	53	27.616	59.596	95.445	1.00	58.92	C
ATOM	3303	O	ASN	B	53	28.094	59.124	94.413	1.00	56.03	O
ATOM	3304	CB	ASN	B	53	25.418	58.441	95.571	1.00	63.87	C

ATOM	3305	CG	ASN	B	53	25.860	57.580	96.705	1.00	68.19	C
ATOM	3306	OD1	ASN	B	53	27.047	57.317	96.870	1.00	71.70	O
ATOM	3307	ND2	ASN	B	53	24.909	57.127	97.503	1.00	71.00	N
ATOM	3308	N	LEU	B	54	28.360	59.928	96.500	1.00	56.67	N
ATOM	3309	CA	LEU	B	54	29.819	59.803	96.462	1.00	57.08	C
ATOM	3310	C	LEU	B	54	30.455	58.922	97.529	1.00	61.91	C
ATOM	3311	O	LEU	B	54	31.636	58.579	97.426	1.00	60.19	O
ATOM	3312	CB	LEU	B	54	30.471	61.180	96.546	1.00	51.97	C
ATOM	3313	CG	LEU	B	54	30.143	62.191	95.451	1.00	51.87	C
ATOM	3314	CD1	LEU	B	54	28.706	62.656	95.574	1.00	48.76	C
ATOM	3315	CD2	LEU	B	54	31.079	63.368	95.588	1.00	58.12	C
ATOM	3316	N	ASP	B	55	29.683	58.563	98.549	1.00	70.74	N
ATOM	3317	CA	ASP	B	55	30.187	57.742	99.648	1.00	77.32	C
ATOM	3318	C	ASP	B	55	30.422	56.293	99.242	1.00	76.59	C
ATOM	3319	O	ASP	B	55	29.631	55.411	99.579	1.00	78.43	O
ATOM	3320	CB	ASP	B	55	29.201	57.793	100.812	1.00	88.92	C
ATOM	3321	CG	ASP	B	55	29.798	57.286	102.105	1.00	97.30	C
ATOM	3322	OD1	ASP	B	55	29.064	57.257	103.113	1.00	103.84	O
ATOM	3323	OD2	ASP	B	55	30.995	56.925	102.118	1.00	99.30	O
ATOM	3324	N	CYS	B	56	31.520	56.047	98.535	1.00	73.09	N
ATOM	3325	CA	CYS	B	56	31.839	54.703	98.077	1.00	76.41	C
ATOM	3326	C	CYS	B	56	32.452	53.900	99.204	1.00	78.53	C
ATOM	3327	O	CYS	B	56	32.976	52.807	98.989	1.00	79.36	O
ATOM	3328	CB	CYS	B	56	32.784	54.789	96.879	1.00	82.84	C
ATOM	3329	SG	CYS	B	56	32.138	55.971	95.651	1.00	97.54	S
ATOM	3330	N	GLN	B	57	32.383	54.465	100.408	1.00	82.60	N
ATOM	3331	CA	GLN	B	57	32.905	53.825	101.609	1.00	88.03	C
ATOM	3332	C	GLN	B	57	31.775	53.063	102.279	1.00	88.25	C
ATOM	3333	O	GLN	B	57	31.862	51.855	102.485	1.00	94.35	O
ATOM	3334	CB	GLN	B	57	33.456	54.863	102.599	1.00	88.55	C
ATOM	3335	CG	GLN	B	57	34.574	55.742	102.053	1.00	99.60	C
ATOM	3336	CD	GLN	B	57	35.706	54.944	101.433	1.00	105.30	C
ATOM	3337	OE1	GLN	B	57	36.355	54.140	102.101	1.00	105.35	O
ATOM	3338	NE2	GLN	B	57	35.949	55.164	100.147	1.00	106.68	N
ATOM	3339	N	GLU	B	58	30.704	53.775	102.609	1.00	84.13	N
ATOM	3340	CA	GLU	B	58	29.565	53.155	103.273	1.00	85.28	C
ATOM	3341	C	GLU	B	58	28.336	53.045	102.376	1.00	86.43	C
ATOM	3342	O	GLU	B	58	27.279	52.619	102.815	1.00	94.65	O
ATOM	3343	CB	GLU	B	58	29.203	53.945	104.523	1.00	87.78	C
ATOM	3344	CG	GLU	B	58	30.368	54.171	105.457	1.00	95.96	C
ATOM	3345	CD	GLU	B	58	30.004	55.072	106.615	1.00	106.71	C
ATOM	3346	OE1	GLU	B	58	29.694	56.257	106.374	1.00	111.67	O
ATOM	3347	OE2	GLU	B	58	30.018	54.595	107.767	1.00	112.58	O
ATOM	3348	N	GLU	B	59	28.467	53.436	101.119	1.00	81.94	N
ATOM	3349	CA	GLU	B	59	27.354	53.340	100.183	1.00	81.74	C
ATOM	3350	C	GLU	B	59	27.941	53.138	98.796	1.00	77.25	C
ATOM	3351	O	GLU	B	59	27.760	53.963	97.908	1.00	82.71	O
ATOM	3352	CB	GLU	B	59	26.507	54.611	100.228	1.00	85.39	C
ATOM	3353	CG	GLU	B	59	25.627	54.740	101.467	1.00	101.19	C
ATOM	3354	CD	GLU	B	59	24.726	53.529	101.668	1.00	107.93	O
ATOM	3355	OE1	GLU	B	59	24.135	53.059	100.676	1.00	111.69	O
ATOM	3356	OE2	GLU	B	59	24.587	53.050	102.814	1.00	112.86	O
ATOM	3357	N	PRO	B	60	28.642	52.012	98.589	1.00	69.56	N
ATOM	3358	CA	PRO	B	60	29.279	51.691	97.310	1.00	62.09	C
ATOM	3359	C	PRO	B	60	28.385	51.308	96.134	1.00	55.61	C
ATOM	3360	O	PRO	B	60	28.760	51.498	94.972	1.00	50.15	O
ATOM	3361	CB	PRO	B	60	30.239	50.574	97.694	1.00	64.29	C
ATOM	3362	CG	PRO	B	60	29.434	49.814	98.695	1.00	64.33	C
ATOM	3363	CD	PRO	B	60	28.812	50.902	99.546	1.00	63.75	C
ATOM	3364	N	ASP	B	61	27.212	50.762	96.419	1.00	52.52	N
ATOM	3365	CA	ASP	B	61	26.320	50.354	95.344	1.00	55.79	C
ATOM	3366	C	ASP	B	61	25.635	51.539	94.677	1.00	55.81	C
ATOM	3367	O	ASP	B	61	25.386	51.505	93.481	1.00	52.43	O
ATOM	3368	CB	ASP	B	61	25.286	49.359	95.870	1.00	63.61	C
ATOM	3369	CG	ASP	B	61	25.904	48.019	96.236	1.00	69.03	C
ATOM	3370	OD1	ASP	B	61	26.211	47.231	95.318	1.00	67.01	O
ATOM	3371	OD2	ASP	B	61	26.097	47.761	97.443	1.00	71.87	O
ATOM	3372	N	SER	B	62	25.345	52.586	95.445	1.00	61.52	N
ATOM	3373	CA	SER	B	62	24.699	53.783	94.900	1.00	62.45	C
ATOM	3374	C	SER	B	62	25.776	54.741	94.388	1.00	55.68	C
ATOM	3375	O	SER	B	62	25.516	55.646	93.592	1.00	54.61	O
ATOM	3376	CB	SER	B	62	23.880	54.496	95.988	1.00	71.31	C
ATOM	3377	OG	SER	B	62	22.989	53.619	96.659	1.00	78.96	O
ATOM	3378	N	CYS	B	63	26.995	54.517	94.860	1.00	47.03	N
ATOM	3379	CA	CYS	B	63	28.144	55.338	94.520	1.00	48.82	C
ATOM	3380	C	CYS	B	63	28.362	55.485	93.022	1.00	50.63	C
ATOM	3381	O	CYS	B	63	28.355	54.503	92.280	1.00	55.82	O
ATOM	3382	CB	CYS	B	63	29.371	54.738	95.212	1.00	61.40	C
ATOM	3383	SG	CYS	B	63	30.998	54.841	94.398	1.00	90.41	S

ATOM	3384	N	ILE	B	64	28.546	56.726	92.585	1.00	45.46	N
ATOM	3385	CA	ILE	B	64	28.774	57.038	91.173	1.00	41.72	C
ATOM	3386	C	ILE	B	64	30.222	56.744	90.743	1.00	45.40	C
ATOM	3387	O	ILE	B	64	31.114	57.574	90.946	1.00	52.52	O
ATOM	3388	CB	ILE	B	64	28.458	58.533	90.897	1.00	35.88	C
ATOM	3389	CG1	ILE	B	64	27.000	58.827	91.255	1.00	44.28	C
ATOM	3390	CG2	ILE	B	64	28.729	58.878	89.439	1.00	32.95	C
ATOM	3391	CD1	ILE	B	64	26.614	60.270	91.062	1.00	55.94	C
ATOM	3392	N	SER	B	65	30.454	55.573	90.145	1.00	41.54	N
ATOM	3393	CA	SER	B	65	31.801	55.199	89.711	1.00	41.35	C
ATOM	3394	C	SER	B	65	31.795	54.426	88.410	1.00	42.46	C
ATOM	3395	O	SER	B	65	30.788	53.821	88.047	1.00	42.39	O
ATOM	3396	CB	SER	B	65	32.465	54.307	90.745	1.00	46.37	C
ATOM	3397	OG	SER	B	65	32.080	52.963	90.507	1.00	44.54	O
ATOM	3398	N	GLU	B	66	32.940	54.420	87.730	1.00	49.26	N
ATOM	3399	CA	GLU	B	66	33.075	53.693	86.474	1.00	55.60	C
ATOM	3400	C	GLU	B	66	32.698	52.242	86.694	1.00	57.45	C
ATOM	3401	O	GLU	B	66	32.176	51.580	85.806	1.00	60.04	O
ATOM	3402	CB	GLU	B	66	34.509	53.771	85.942	1.00	54.09	C
ATOM	3403	CG	GLU	B	66	35.592	53.461	86.970	1.00	63.92	C
ATOM	3404	CD	GLU	B	66	36.947	53.196	86.327	1.00	69.85	C
ATOM	3405	OE1	GLU	B	66	37.090	52.141	85.679	1.00	73.92	O
ATOM	3406	OE2	GLU	B	66	37.863	54.037	86.454	1.00	72.73	O
ATOM	3407	N	LYS	B	67	32.977	51.737	87.883	1.00	59.92	N
ATOM	3408	CA	LYS	B	67	32.631	50.360	88.180	1.00	62.93	C
ATOM	3409	C	LYS	B	67	31.130	50.157	87.967	1.00	54.45	C
ATOM	3410	O	LYS	B	67	30.709	49.204	87.311	1.00	50.58	O
ATOM	3411	CB	LYS	B	67	33.033	50.023	89.618	1.00	79.48	C
ATOM	3412	CG	LYS	B	67	34.547	50.023	89.847	1.00	91.15	C
ATOM	3413	CD	LYS	B	67	34.911	49.554	91.249	1.00	100.90	C
ATOM	3414	CE	LYS	B	67	36.418	49.369	91.418	1.00	105.90	C
ATOM	3415	NZ	LYS	B	67	36.765	48.894	92.794	1.00	107.32	N
ATOM	3416	N	LEU	B	68	30.333	51.079	88.496	1.00	48.57	N
ATOM	3417	CA	LEU	B	68	28.881	51.013	88.369	1.00	47.24	C
ATOM	3418	C	LEU	B	68	28.386	50.985	86.915	1.00	41.16	C
ATOM	3419	O	LEU	B	68	27.645	50.090	86.498	1.00	35.63	O
ATOM	3420	CB	LEU	B	68	28.257	52.198	89.113	1.00	51.16	C
ATOM	3421	CG	LEU	B	68	26.727	52.242	89.171	1.00	48.40	C
ATOM	3422	CD1	LEU	B	68	26.210	50.875	89.600	1.00	54.14	C
ATOM	3423	CD2	LEU	B	68	26.261	53.348	90.124	1.00	45.95	C
ATOM	3424	N	PHE	B	69	28.803	51.973	86.142	1.00	40.32	N
ATOM	3425	CA	PHE	B	69	28.400	52.057	84.736	1.00	44.21	C
ATOM	3426	C	PHE	B	69	28.738	50.779	83.956	1.00	47.20	C
ATOM	3427	O	PHE	B	69	27.975	50.352	83.076	1.00	48.55	O
ATOM	3428	CB	PHE	B	69	29.072	53.268	84.075	1.00	46.24	C
ATOM	3429	CG	PHE	B	69	28.452	54.593	84.465	1.00	43.45	C
ATOM	3430	CD1	PHE	B	69	27.190	54.948	83.995	1.00	41.14	C
ATOM	3431	CD2	PHE	B	69	29.124	55.483	85.297	1.00	45.13	C
ATOM	3432	CE1	PHE	B	69	26.616	56.165	84.346	1.00	48.56	C
ATOM	3433	CE2	PHE	B	69	28.555	56.701	85.651	1.00	47.33	C
ATOM	3434	CZ	PHE	B	69	27.300	57.041	85.174	1.00	51.58	C
ATOM	3435	N	MET	B	70	29.887	50.184	84.282	1.00	50.28	N
ATOM	3436	CA	MET	B	70	30.337	48.953	83.637	1.00	59.26	C
ATOM	3437	C	MET	B	70	29.301	47.882	83.903	1.00	63.24	C
ATOM	3438	O	MET	B	70	28.943	47.106	83.014	1.00	67.06	O
ATOM	3439	CB	MET	B	70	31.671	48.482	84.217	1.00	62.36	C
ATOM	3440	CG	MET	B	70	32.853	49.354	83.895	1.00	72.79	C
ATOM	3441	SD	MET	B	70	34.309	48.718	84.728	1.00	76.49	S
ATOM	3442	CE	MET	B	70	34.462	47.114	83.929	1.00	71.92	C
ATOM	3443	N	GLU	B	71	28.836	47.826	85.144	1.00	62.74	N
ATOM	3444	CA	GLU	B	71	27.849	46.836	85.467	1.00	60.66	C
ATOM	3445	C	GLU	B	71	26.661	47.124	84.582	1.00	56.18	C
ATOM	3446	O	GLU	B	71	26.330	46.328	83.704	1.00	59.03	O
ATOM	3447	CB	GLU	B	71	27.443	46.922	86.926	1.00	63.14	C
ATOM	3448	CG	GLU	B	71	26.921	45.613	87.451	1.00	72.51	C
ATOM	3449	CD	GLU	B	71	26.586	45.694	88.911	1.00	79.12	C
ATOM	3450	OE1	GLU	B	71	26.584	44.640	89.578	1.00	79.54	O
ATOM	3451	OE2	GLU	B	71	26.322	46.819	89.387	1.00	77.19	O
ATOM	3452	N	MET	B	72	26.045	48.283	84.793	1.00	52.94	N
ATOM	3453	CA	MET	B	72	24.887	48.669	84.005	1.00	55.03	C
ATOM	3454	C	MET	B	72	25.057	48.295	82.545	1.00	55.02	C
ATOM	3455	O	MET	B	72	24.247	47.548	81.993	1.00	59.67	O
ATOM	3456	CB	MET	B	72	24.611	50.171	84.128	1.00	51.43	C
ATOM	3457	CG	MET	B	72	23.672	50.528	85.269	1.00	45.55	C
ATOM	3458	SD	MET	B	72	22.168	49.503	85.293	1.00	56.76	S
ATOM	3459	CE	MET	B	72	21.816	49.419	87.103	1.00	45.65	C
ATOM	3460	N	ALA	B	73	26.118	48.796	81.924	1.00	52.08	N
ATOM	3461	CA	ALA	B	73	26.368	48.500	80.522	1.00	55.06	C
ATOM	3462	C	ALA	B	73	26.100	47.025	80.244	1.00	58.38	C



ATOM	3463	O	ALA	B	73	25.221	46.680	79.451	1.00	59.76	O
ATOM	3464	CB	ALA	B	73	27.804	48.849	80.165	1.00	54.06	C
ATOM	3465	N	GLU	B	74	26.850	46.168	80.929	1.00	60.51	N
ATOM	3466	CA	GLU	B	74	26.737	44.725	80.779	1.00	60.28	C
ATOM	3467	C	GLU	B	74	25.282	44.302	80.665	1.00	54.03	C
ATOM	3468	O	GLU	B	74	24.871	43.688	79.677	1.00	49.01	O
ATOM	3469	CB	GLU	B	74	27.376	44.027	81.985	1.00	70.28	C
ATOM	3470	CG	GLU	B	74	28.317	42.887	81.627	1.00	88.79	C
ATOM	3471	CD	GLU	B	74	27.645	41.798	80.805	1.00	100.69	C
ATOM	3472	OE1	GLU	B	74	26.753	41.105	81.341	1.00	106.44	O
ATOM	3473	OE2	GLU	B	74	28.006	41.636	79.619	1.00	105.25	O
ATOM	3474	N	LEU	B	75	24.514	44.660	81.690	1.00	51.75	N
ATOM	3475	CA	LEU	B	75	23.097	44.333	81.783	1.00	50.39	C
ATOM	3476	C	LEU	B	75	22.227	44.748	80.600	1.00	48.71	C
ATOM	3477	O	LEU	B	75	21.553	43.911	79.997	1.00	51.38	O
ATOM	3478	CB	LEU	B	75	22.512	44.939	83.053	1.00	54.68	C
ATOM	3479	CG	LEU	B	75	22.923	44.280	84.365	1.00	60.00	C
ATOM	3480	CD1	LEU	B	75	24.431	44.293	84.522	1.00	66.87	C
ATOM	3481	CD2	LEU	B	75	22.258	45.017	85.507	1.00	65.84	C
ATOM	3482	N	MET	B	76	22.214	46.035	80.278	1.00	44.91	N
ATOM	3483	CA	MET	B	76	21.392	46.500	79.173	1.00	50.42	C
ATOM	3484	C	MET	B	76	21.421	45.474	78.046	1.00	55.62	C
ATOM	3485	O	MET	B	76	20.414	45.210	77.394	1.00	62.87	O
ATOM	3486	CB	MET	B	76	21.897	47.858	78.686	1.00	41.64	C
ATOM	3487	CG	MET	B	76	21.718	48.971	79.703	1.00	39.29	C
ATOM	3488	SD	MET	B	76	22.349	50.547	79.110	1.00	40.97	S
ATOM	3489	CE	MET	B	76	21.001	50.979	77.992	1.00	38.29	C
ATOM	3490	N	VAL	B	77	22.596	44.890	77.852	1.00	56.45	N
ATOM	3491	CA	VAL	B	77	22.826	43.874	76.832	1.00	57.26	C
ATOM	3492	C	VAL	B	77	22.219	42.535	77.268	1.00	56.69	C
ATOM	3493	O	VAL	B	77	21.548	41.859	76.486	1.00	58.33	O
ATOM	3494	CB	VAL	B	77	24.347	43.677	76.595	1.00	58.52	C
ATOM	3495	CG1	VAL	B	77	24.577	42.711	75.467	1.00	64.12	C
ATOM	3496	CG2	VAL	B	77	25.015	45.014	76.305	1.00	62.67	C
ATOM	3497	N	SER	B	78	22.463	42.179	78.530	1.00	54.01	N
ATOM	3498	CA	SER	B	78	21.979	40.937	79.130	1.00	54.88	C
ATOM	3499	C	SER	B	78	20.480	40.723	79.009	1.00	59.60	C
ATOM	3500	O	SER	B	78	20.026	39.975	78.148	1.00	63.77	O
ATOM	3501	CB	SER	B	78	22.357	40.871	80.604	1.00	53.95	C
ATOM	3502	OG	SER	B	78	23.759	40.876	80.768	1.00	55.24	O
ATOM	3503	N	GLU	B	79	19.704	41.361	79.876	1.00	62.46	N
ATOM	3504	CA	GLU	B	79	18.256	41.198	79.840	1.00	65.67	C
ATOM	3505	C	GLU	B	79	17.596	41.854	78.640	1.00	62.34	C
ATOM	3506	O	GLU	B	79	16.463	42.319	78.706	1.00	57.87	O
ATOM	3507	CB	GLU	B	79	17.621	41.771	81.109	1.00	73.87	C
ATOM	3508	CG	GLU	B	79	18.006	41.035	82.382	1.00	77.59	C
ATOM	3509	CD	GLU	B	79	17.497	39.608	82.407	1.00	75.00	C
ATOM	3510	OE1	GLU	B	79	16.351	39.378	81.966	1.00	81.09	O
ATOM	3511	OE2	GLU	B	79	18.244	38.719	82.868	1.00	68.80	O
ATOM	3512	N	GLY	B	80	18.335	41.892	77.546	1.00	66.49	N
ATOM	3513	CA	GLY	B	80	17.823	42.437	76.305	1.00	70.49	C
ATOM	3514	C	GLY	B	80	17.217	43.824	76.282	1.00	65.38	C
ATOM	3515	O	GLY	B	80	16.159	44.027	75.676	1.00	63.73	O
ATOM	3516	N	TRP	B	81	17.873	44.778	76.938	1.00	58.71	N
ATOM	3517	CA	TRP	B	81	17.391	46.155	76.928	1.00	49.89	C
ATOM	3518	C	TRP	B	81	17.781	46.751	75.582	1.00	47.71	C
ATOM	3519	O	TRP	B	81	16.982	47.408	74.906	1.00	43.13	O
ATOM	3520	CB	TRP	B	81	18.031	46.964	78.046	1.00	39.95	C
ATOM	3521	CG	TRP	B	81	17.513	46.578	79.378	1.00	41.75	C
ATOM	3522	CD1	TRP	B	81	18.116	45.766	80.293	1.00	49.58	C
ATOM	3523	CD2	TRP	B	81	16.262	46.969	79.947	1.00	44.93	C
ATOM	3524	NE1	TRP	B	81	17.316	45.629	81.404	1.00	51.02	N
ATOM	3525	CE2	TRP	B	81	16.169	46.356	81.217	1.00	47.47	C
ATOM	3526	CE3	TRP	B	81	15.206	47.775	79.506	1.00	49.30	C
ATOM	3527	CZ2	TRP	B	81	15.060	46.527	82.055	1.00	51.93	C
ATOM	3528	CZ3	TRP	B	81	14.102	47.944	80.340	1.00	54.66	C
ATOM	3529	CH2	TRP	B	81	14.039	47.321	81.597	1.00	56.17	C
ATOM	3530	N	LYS	B	82	19.026	46.503	75.196	1.00	47.14	N
ATOM	3531	CA	LYS	B	82	19.542	46.992	73.932	1.00	46.37	C
ATOM	3532	C	LYS	B	82	18.597	46.581	72.816	1.00	42.01	C
ATOM	3533	O	LYS	B	82	18.156	47.412	72.034	1.00	41.69	O
ATOM	3534	CB	LYS	B	82	20.931	46.414	73.687	1.00	54.64	C
ATOM	3535	CG	LYS	B	82	21.640	46.992	72.484	1.00	57.29	C
ATOM	3536	CD	LYS	B	82	23.098	46.567	72.483	1.00	68.46	C
ATOM	3537	CE	LYS	B	82	23.779	46.955	71.188	1.00	77.68	C
ATOM	3538	NZ	LYS	B	82	23.091	46.322	70.027	1.00	86.52	N
ATOM	3539	N	ASP	B	83	18.274	45.293	72.768	1.00	40.57	N
ATOM	3540	CA	ASP	B	83	17.377	44.734	71.759	1.00	54.12	C
ATOM	3541	C	ASP	B	83	16.059	45.499	71.646	1.00	58.47	C

ATOM	3542	O	ASP	B	83	15.521	45.673	70.554	1.00	64.42	O
ATOM	3543	CB	ASP	B	83	17.064	43.269	72.085	1.00	62.53	C
ATOM	3544	CG	ASP	B	83	18.301	42.388	72.105	1.00	66.47	C
ATOM	3545	OD1	ASP	B	83	18.214	41.259	72.633	1.00	69.11	O
ATOM	3546	OD2	ASP	B	83	19.355	42.813	71.594	1.00	67.33	O
ATOM	3547	N	ALA	B	84	15.541	45.953	72.782	1.00	59.07	N
ATOM	3548	CA	ALA	B	84	14.275	46.678	72.805	1.00	57.00	C
ATOM	3549	C	ALA	B	84	14.391	48.105	72.302	1.00	53.21	C
ATOM	3550	O	ALA	B	84	13.398	48.697	71.895	1.00	54.97	O
ATOM	3551	CB	ALA	B	84	13.693	46.672	74.208	1.00	64.01	C
ATOM	3552	N	GLY	B	85	15.595	48.664	72.333	1.00	47.70	N
ATOM	3553	CA	GLY	B	85	15.761	50.021	71.848	1.00	45.23	C
ATOM	3554	C	GLY	B	85	16.727	50.905	72.611	1.00	45.80	C
ATOM	3555	O	GLY	B	85	17.442	51.704	72.001	1.00	43.19	O
ATOM	3556	N	TYR	B	86	16.746	50.788	73.938	1.00	45.96	N
ATOM	3557	CA	TYR	B	86	17.640	51.608	74.755	1.00	46.92	C
ATOM	3558	C	TYR	B	86	19.037	51.309	74.270	1.00	47.08	C
ATOM	3559	O	TYR	B	86	19.473	50.164	74.295	1.00	57.42	O
ATOM	3560	CB	TYR	B	86	17.479	51.243	76.222	1.00	52.22	C
ATOM	3561	CG	TYR	B	86	16.042	51.356	76.651	1.00	52.78	C
ATOM	3562	CD1	TYR	B	86	15.501	52.581	77.023	1.00	50.28	C
ATOM	3563	CD2	TYR	B	86	15.201	50.247	76.616	1.00	56.77	C
ATOM	3564	CE1	TYR	B	86	14.154	52.697	77.351	1.00	53.62	C
ATOM	3565	CE2	TYR	B	86	13.852	50.352	76.939	1.00	59.13	C
ATOM	3566	CZ	TYR	B	86	13.336	51.578	77.307	1.00	60.42	C
ATOM	3567	OH	TYR	B	86	12.008	51.685	77.646	1.00	66.24	O
ATOM	3568	N	GLU	B	87	19.732	52.338	73.811	1.00	43.55	N
ATOM	3569	CA	GLU	B	87	21.066	52.147	73.275	1.00	42.08	C
ATOM	3570	C	GLU	B	87	22.058	53.155	73.814	1.00	32.09	C
ATOM	3571	O	GLU	B	87	23.246	53.075	73.542	1.00	31.92	O
ATOM	3572	CB	GLU	B	87	20.988	52.224	71.756	1.00	57.82	C
ATOM	3573	CG	GLU	B	87	22.288	52.407	71.031	1.00	79.46	C
ATOM	3574	CD	GLU	B	87	22.061	52.534	69.540	1.00	94.32	C
ATOM	3575	OE1	GLU	B	87	21.164	53.316	69.146	1.00	93.22	O
ATOM	3576	OE2	GLU	B	87	22.773	51.859	68.764	1.00	105.72	O
ATOM	3577	N	TYR	B	88	21.564	54.095	74.602	1.00	28.08	N
ATOM	3578	CA	TYR	B	88	22.418	55.120	75.187	1.00	28.39	C
ATOM	3579	C	TYR	B	88	22.546	55.016	76.705	1.00	32.01	C
ATOM	3580	O	TYR	B	88	21.556	55.062	77.431	1.00	40.48	O
ATOM	3581	CB	TYR	B	88	21.884	56.505	74.829	1.00	33.19	C
ATOM	3582	CG	TYR	B	88	22.226	56.962	73.436	1.00	37.55	C
ATOM	3583	CD1	TYR	B	88	23.396	57.683	73.184	1.00	42.68	C
ATOM	3584	CD2	TYR	B	88	21.375	56.693	72.377	1.00	47.22	C
ATOM	3585	CE1	TYR	B	88	23.709	58.133	71.914	1.00	43.08	C
ATOM	3586	CE2	TYR	B	88	21.673	57.136	71.092	1.00	51.13	C
ATOM	3587	CZ	TYR	B	88	22.843	57.860	70.864	1.00	42.93	C
ATOM	3588	OH	TYR	B	88	23.136	58.323	69.595	1.00	38.53	O
ATOM	3589	N	LEU	B	89	23.776	54.885	77.183	1.00	27.32	N
ATOM	3590	CA	LEU	B	89	24.037	54.794	78.617	1.00	28.99	C
ATOM	3591	C	LEU	B	89	24.711	56.127	78.944	1.00	32.72	C
ATOM	3592	O	LEU	B	89	25.780	56.433	78.406	1.00	22.54	O
ATOM	3593	CB	LEU	B	89	24.963	53.605	78.879	1.00	29.88	C
ATOM	3594	CG	LEU	B	89	25.375	53.272	80.302	1.00	40.95	C
ATOM	3595	CD1	LEU	B	89	24.159	53.175	81.182	1.00	55.49	C
ATOM	3596	CD2	LEU	B	89	26.140	51.964	80.284	1.00	37.32	C
ATOM	3597	N	CYS	B	90	24.090	56.930	79.804	1.00	39.74	N
ATOM	3598	CA	CYS	B	90	24.645	58.242	80.108	1.00	43.17	C
ATOM	3599	C	CYS	B	90	24.920	58.599	81.545	1.00	46.82	C
ATOM	3600	O	CYS	B	90	24.175	58.230	82.463	1.00	48.55	O
ATOM	3601	CB	CYS	B	90	23.750	59.298	79.503	1.00	43.07	C
ATOM	3602	SG	CYS	B	90	23.343	58.858	77.818	1.00	53.47	S
ATOM	3603	N	ILE	B	91	26.006	59.348	81.712	1.00	44.38	N
ATOM	3604	CA	ILE	B	91	26.459	59.813	83.012	1.00	33.49	C
ATOM	3605	C	ILE	B	91	25.927	61.213	83.230	1.00	34.00	C
ATOM	3606	O	ILE	B	91	25.935	62.044	82.316	1.00	42.32	O
ATOM	3607	CB	ILE	B	91	27.984	59.908	83.084	1.00	26.35	C
ATOM	3608	CG1	ILE	B	91	28.613	58.593	82.651	1.00	32.38	C
ATOM	3609	CG2	ILE	B	91	28.408	60.256	84.504	1.00	23.86	C
ATOM	3610	CD1	ILE	B	91	30.107	58.652	82.576	1.00	37.01	C
ATOM	3611	N	ASP	B	92	25.474	61.471	84.447	1.00	29.43	N
ATOM	3612	CA	ASP	B	92	24.952	62.772	84.791	1.00	31.27	C
ATOM	3613	C	ASP	B	92	25.983	63.421	85.714	1.00	33.43	C
ATOM	3614	O	ASP	B	92	27.079	62.883	85.915	1.00	35.70	O
ATOM	3615	CB	ASP	B	92	23.586	62.616	85.477	1.00	29.94	C
ATOM	3616	CG	ASP	B	92	22.875	63.943	85.688	1.00	30.39	C
ATOM	3617	OD1	ASP	B	92	23.111	64.584	86.735	1.00	32.37	O
ATOM	3618	OD2	ASP	B	92	22.082	64.348	84.806	1.00	18.07	O
ATOM	3619	N	ASP	B	93	25.626	64.572	86.269	1.00	32.81	N
ATOM	3620	CA	ASP	B	93	26.496	65.324	87.158	1.00	36.97	C

ATOM	3621	C	ASP	B	93	27.234	64.452	88.182	1.00	38.38	C
ATOM	3622	O	ASP	B	93	26.832	63.311	88.472	1.00	34.55	O
ATOM	3623	CB	ASP	B	93	25.674	66.384	87.903	1.00	40.48	C
ATOM	3624	CG	ASP	B	93	26.494	67.609	88.276	1.00	43.57	C
ATOM	3625	OD1	ASP	B	93	27.712	67.466	88.536	1.00	46.43	O
ATOM	3626	OD2	ASP	B	93	25.915	68.718	88.325	1.00	37.49	O
ATOM	3627	N	CYS	B	94	28.325	64.999	88.713	1.00	39.48	N
ATOM	3628	CA	CYS	B	94	29.107	64.320	89.739	1.00	42.25	C
ATOM	3629	C	CYS	B	94	30.016	63.202	89.254	1.00	42.15	C
ATOM	3630	O	CYS	B	94	30.416	62.336	90.028	1.00	36.63	O
ATOM	3631	CB	CYS	B	94	28.154	63.822	90.839	1.00	48.72	C
ATOM	3632	SG	CYS	B	94	27.315	65.237	91.653	1.00	73.66	S
ATOM	3633	N	TRP	B	95	30.366	63.237	87.978	1.00	43.99	N
ATOM	3634	CA	TRP	B	95	31.243	62.219	87.420	1.00	50.45	C
ATOM	3635	C	TRP	B	95	32.653	62.796	87.345	1.00	56.13	C
ATOM	3636	O	TRP	B	95	33.629	62.062	87.155	1.00	56.63	O
ATOM	3637	CB	TRP	B	95	30.811	61.883	86.002	1.00	54.40	C
ATOM	3638	CG	TRP	B	95	30.992	63.057	85.087	1.00	59.17	C
ATOM	3639	CD1	TRP	B	95	30.086	64.036	84.823	1.00	64.81	C
ATOM	3640	CD2	TRP	B	95	32.181	63.403	84.354	1.00	63.77	C
ATOM	3641	NE1	TRP	B	95	30.631	64.968	83.963	1.00	67.76	N
ATOM	3642	CE2	TRP	B	95	31.910	64.596	83.654	1.00	65.92	C
ATOM	3643	CE3	TRP	B	95	33.440	62.808	84.205	1.00	67.47	C
ATOM	3644	CZ2	TRP	B	95	32.852	65.218	82.841	1.00	69.16	C
ATOM	3645	CZ3	TRP	B	95	34.383	63.430	83.388	1.00	68.21	C
ATOM	3646	CH2	TRP	B	95	34.075	64.619	82.709	1.00	71.32	C
ATOM	3647	N	MET	B	96	32.738	64.117	87.469	1.00	65.90	N
ATOM	3648	CA	MET	B	96	34.003	64.819	87.355	1.00	75.90	C
ATOM	3649	C	MET	B	96	34.798	65.081	88.631	1.00	82.19	C
ATOM	3650	O	MET	B	96	34.248	65.254	89.721	1.00	81.85	O
ATOM	3651	CB	MET	B	96	33.766	66.140	86.639	1.00	73.16	C
ATOM	3652	CG	MET	B	96	32.586	66.921	87.183	1.00	68.39	C
ATOM	3653	SD	MET	B	96	32.333	68.458	86.294	1.00	71.72	S
ATOM	3654	CE	MET	B	96	31.894	67.850	84.646	1.00	55.21	C
ATOM	3655	N	ALA	B	97	36.116	65.098	88.475	1.00	84.61	N
ATOM	3656	CA	ALA	B	97	37.002	65.377	89.584	1.00	79.26	C
ATOM	3657	C	ALA	B	97	36.835	66.871	89.799	1.00	74.19	C
ATOM	3658	O	ALA	B	97	36.292	67.569	88.945	1.00	75.52	O
ATOM	3659	CB	ALA	B	97	38.437	65.050	89.209	1.00	81.06	C
ATOM	3660	N	PRO	B	98	37.294	67.375	90.948	1.00	71.08	N
ATOM	3661	CA	PRO	B	98	37.241	68.777	91.376	1.00	74.89	C
ATOM	3662	C	PRO	B	98	37.700	69.889	90.434	1.00	77.18	C
ATOM	3663	O	PRO	B	98	37.198	71.004	90.537	1.00	76.09	O
ATOM	3664	CB	PRO	B	98	38.034	68.756	92.672	1.00	79.16	C
ATOM	3665	CG	PRO	B	98	37.635	67.444	93.247	1.00	74.74	C
ATOM	3666	CD	PRO	B	98	37.786	66.527	92.048	1.00	72.46	C
ATOM	3667	N	GLN	B	99	38.659	69.619	89.551	1.00	80.93	N
ATOM	3668	CA	GLN	B	99	39.103	70.651	88.607	1.00	89.74	C
ATOM	3669	C	GLN	B	99	39.982	70.141	87.464	1.00	95.92	C
ATOM	3670	O	GLN	B	99	40.448	69.005	87.477	1.00	100.48	O
ATOM	3671	CB	GLN	B	99	39.825	71.799	89.327	1.00	87.34	C
ATOM	3672	CG	GLN	B	99	41.174	71.455	89.914	1.00	94.17	C
ATOM	3673	CD	GLN	B	99	41.068	70.662	91.191	1.00	97.88	C
ATOM	3674	OE1	GLN	B	99	40.660	69.502	91.186	1.00	100.01	O
ATOM	3675	NE2	GLN	B	99	41.428	71.292	92.304	1.00	95.39	N
ATOM	3676	N	ARG	B	100	40.212	70.991	86.472	1.00	104.87	N
ATOM	3677	CA	ARG	B	100	41.010	70.616	85.307	1.00	109.18	C
ATOM	3678	C	ARG	B	100	42.387	70.068	85.681	1.00	105.78	C
ATOM	3679	O	ARG	B	100	42.724	69.930	86.856	1.00	104.49	O
ATOM	3680	CB	ARG	B	100	41.187	71.831	84.390	1.00	118.39	C
ATOM	3681	CG	ARG	B	100	39.943	72.698	84.222	1.00	121.02	C
ATOM	3682	CD	ARG	B	100	38.970	72.146	83.205	1.00	120.33	C
ATOM	3683	NE	ARG	B	100	37.794	73.002	83.099	1.00	118.72	N
ATOM	3684	CZ	ARG	B	100	36.891	72.915	82.129	1.00	119.00	C
ATOM	3685	NH1	ARG	B	100	37.028	72.009	81.172	1.00	116.72	N
ATOM	3686	NH2	ARG	B	100	35.847	73.729	82.123	1.00	120.98	N
ATOM	3687	N	ASP	B	101	43.176	69.753	84.662	1.00	103.43	N
ATOM	3688	CA	ASP	B	101	44.523	69.247	84.863	1.00	104.26	C
ATOM	3689	C	ASP	B	101	45.527	70.281	84.358	1.00	108.42	C
ATOM	3690	O	ASP	B	101	45.144	71.383	83.974	1.00	106.79	O
ATOM	3691	CB	ASP	B	101	44.712	67.909	84.132	1.00	100.77	C
ATOM	3692	CG	ASP	B	101	44.228	67.944	82.687	1.00	92.36	C
ATOM	3693	OD1	ASP	B	101	44.716	68.791	81.906	1.00	92.02	O
ATOM	3694	OD2	ASP	B	101	43.363	67.111	82.327	1.00	82.12	O
ATOM	3695	N	SER	B	102	46.810	69.933	84.371	1.00	112.28	N
ATOM	3696	CA	SER	B	102	47.844	70.850	83.904	1.00	113.66	C
ATOM	3697	C	SER	B	102	47.454	71.429	82.549	1.00	116.11	C
ATOM	3698	O	SER	B	102	47.287	72.641	82.419	1.00	116.14	O
ATOM	3699	CB	SER	B	102	49.199	70.133	83.804	1.00	110.50	C

ATOM	3700	OG	SER	B	102	49.147	69.033	82.911	1.00107.72	O
ATOM	3701	N	GLU	B	103	47.301	70.564	81.547	1.00118.95	N
ATOM	3702	CA	GLU	B	103	46.914	71.010	80.210	1.00121.20	C
ATOM	3703	C	GLU	B	103	45.749	71.994	80.371	1.00116.49	C
ATOM	3704	O	GLU	B	103	45.803	73.122	79.880	1.00116.10	O
ATOM	3705	CB	GLU	B	103	46.494	69.808	79.342	1.00132.15	C
ATOM	3706	CG	GLU	B	103	46.137	70.133	77.875	1.00144.43	C
ATOM	3707	CD	GLU	B	103	47.341	70.170	76.933	1.00147.61	C
ATOM	3708	OE1	GLU	B	103	48.046	69.144	76.819	1.00147.17	O
ATOM	3709	OE2	GLU	B	103	47.575	71.223	76.297	1.00146.67	O
ATOM	3710	N	GLY	B	104	44.712	71.570	81.089	1.00110.30	N
ATOM	3711	CA	GLY	B	104	43.562	72.428	81.309	1.00105.21	C
ATOM	3712	C	GLY	B	104	42.230	71.764	81.005	1.00100.85	C
ATOM	3713	O	GLY	B	104	41.174	72.328	81.295	1.00 97.39	O
ATOM	3714	N	ARG	B	105	42.273	70.567	80.425	1.00 97.66	N
ATOM	3715	CA	ARG	B	105	41.060	69.833	80.080	1.00 96.21	C
ATOM	3716	C	ARG	B	105	40.377	69.316	81.349	1.00 92.31	C
ATOM	3717	O	ARG	B	105	40.800	69.632	82.462	1.00 87.06	O
ATOM	3718	CB	ARG	B	105	41.402	68.669	79.133	1.00102.87	C
ATOM	3719	CG	ARG	B	105	42.377	69.051	78.008	1.00106.88	C
ATOM	3720	CD	ARG	B	105	42.190	68.239	76.722	1.00106.14	C
ATOM	3721	NE	ARG	B	105	42.501	66.820	76.871	1.00104.40	N
ATOM	3722	CZ	ARG	B	105	42.468	65.940	75.873	1.00102.19	C
ATOM	3723	NH1	ARG	B	105	42.139	66.333	74.648	1.00100.44	N
ATOM	3724	NH2	ARG	B	105	42.754	64.664	76.098	1.00 97.55	N
ATOM	3725	N	LEU	B	106	39.320	68.527	81.183	1.00 91.24	N
ATOM	3726	CA	LEU	B	106	38.579	67.979	82.321	1.00 87.88	C
ATOM	3727	C	LEU	B	106	39.041	66.575	82.654	1.00 88.32	C
ATOM	3728	O	LEU	B	106	39.451	65.818	81.777	1.00 91.46	O
ATOM	3729	CB	LEU	B	106	37.082	67.957	82.012	1.00 84.87	C
ATOM	3730	CG	LEU	B	106	36.466	69.345	81.848	1.00 84.82	C
ATOM	3731	CD1	LEU	B	106	35.157	69.284	81.088	1.00 89.63	C
ATOM	3732	CD2	LEU	B	106	36.277	69.941	83.226	1.00 88.35	C
ATOM	3733	N	GLN	B	107	38.959	66.227	83.927	1.00 84.82	N
ATOM	3734	CA	GLN	B	107	39.377	64.911	84.358	1.00 80.90	C
ATOM	3735	C	GLN	B	107	38.419	64.301	85.362	1.00 75.49	C
ATOM	3736	O	GLN	B	107	38.084	64.911	86.383	1.00 69.14	O
ATOM	3737	CB	GLN	B	107	40.786	64.985	84.941	1.00 87.71	C
ATOM	3738	CG	GLN	B	107	41.100	66.311	85.611	1.00 93.81	C
ATOM	3739	CD	GLN	B	107	42.523	66.374	86.126	1.00 94.11	C
ATOM	3740	OE1	GLN	B	107	43.441	65.855	85.495	1.00 95.26	O
ATOM	3741	NE2	GLN	B	107	42.716	67.023	87.271	1.00 95.42	N
ATOM	3742	N	ALA	B	108	37.973	63.090	85.052	1.00 72.11	N
ATOM	3743	CA	ALA	B	108	37.056	62.378	85.924	1.00 68.89	C
ATOM	3744	C	ALA	B	108	37.704	62.219	87.288	1.00 62.15	C
ATOM	3745	O	ALA	B	108	38.926	62.221	87.408	1.00 59.29	O
ATOM	3746	CB	ALA	B	108	36.733	61.010	85.337	1.00 77.88	C
ATOM	3747	N	ASP	B	109	36.881	62.088	88.317	1.00 58.74	N
ATOM	3748	CA	ASP	B	109	37.390	61.914	89.664	1.00 63.20	C
ATOM	3749	C	ASP	B	109	38.417	60.789	89.614	1.00 67.57	C
ATOM	3750	O	ASP	B	109	38.121	59.685	89.162	1.00 66.44	O
ATOM	3751	CB	ASP	B	109	36.250	61.550	90.601	1.00 65.57	C
ATOM	3752	CG	ASP	B	109	36.661	61.581	92.039	1.00 66.50	C
ATOM	3753	OD1	ASP	B	109	37.003	62.676	92.529	1.00 65.69	O
ATOM	3754	OD2	ASP	B	109	36.646	60.509	92.671	1.00 67.73	O
ATOM	3755	N	PRO	B	110	39.640	61.058	90.083	1.00 71.79	N
ATOM	3756	CA	PRO	B	110	40.723	60.074	90.086	1.00 74.11	C
ATOM	3757	C	PRO	B	110	40.368	58.753	90.758	1.00 75.23	C
ATOM	3758	O	PRO	B	110	40.658	57.678	90.229	1.00 77.28	O
ATOM	3759	CB	PRO	B	110	41.846	60.802	90.823	1.00 77.75	C
ATOM	3760	CG	PRO	B	110	41.548	62.248	90.574	1.00 73.78	C
ATOM	3761	CD	PRO	B	110	40.061	62.293	90.763	1.00 72.47	C
ATOM	3762	N	GLN	B	111	39.729	58.847	91.919	1.00 76.43	N
ATOM	3763	CA	GLN	B	111	39.361	57.673	92.708	1.00 81.74	C
ATOM	3764	C	GLN	B	111	38.176	56.860	92.189	1.00 78.82	C
ATOM	3765	O	GLN	B	111	38.253	55.639	92.087	1.00 77.88	O
ATOM	3766	CB	GLN	B	111	39.070	58.085	94.155	1.00 90.62	C
ATOM	3767	CG	GLN	B	111	40.177	58.884	94.838	1.00100.25	C
ATOM	3768	CD	GLN	B	111	40.321	60.285	94.277	1.00105.52	C
ATOM	3769	OE1	GLN	B	111	39.362	61.057	94.246	1.00108.75	O
ATOM	3770	NE2	GLN	B	111	41.524	60.622	93.832	1.00107.34	N
ATOM	3771	N	ARG	B	112	37.072	57.529	91.887	1.00 76.24	N
ATOM	3772	CA	ARG	B	112	35.884	56.840	91.413	1.00 74.45	C
ATOM	3773	C	ARG	B	112	35.926	56.489	89.933	1.00 74.18	C
ATOM	3774	O	ARG	B	112	35.108	55.701	89.452	1.00 69.32	O
ATOM	3775	CB	ARG	B	112	34.660	57.688	91.713	1.00 71.64	C
ATOM	3776	CG	ARG	B	112	34.638	58.159	93.140	1.00 71.55	C
ATOM	3777	CD	ARG	B	112	33.308	58.787	93.519	1.00 75.99	C
ATOM	3778	NE	ARG	B	112	33.179	60.207	93.185	1.00 73.11	N

ATOM	3779	CZ	ARG	B	112	32.985	60.693	91.962	1.00	71.80	C
ATOM	3780	NH1	ARG	B	112	32.900	59.882	90.914	1.00	62.74	N
ATOM	3781	NH2	ARG	B	112	32.850	62.000	91.791	1.00	74.87	N
ATOM	3782	N	PHE	B	113	36.873	57.087	89.217	1.00	71.72	N
ATOM	3783	CA	PHE	B	113	37.061	56.831	87.790	1.00	68.98	C
ATOM	3784	C	PHE	B	113	38.549	56.697	87.486	1.00	72.92	C
ATOM	3785	O	PHE	B	113	39.110	57.476	86.712	1.00	74.24	O
ATOM	3786	CB	PHE	B	113	36.474	57.966	86.948	1.00	57.79	C
ATOM	3787	CG	PHE	B	113	34.970	58.046	86.993	1.00	49.73	C
ATOM	3788	CD1	PHE	B	113	34.178	57.101	86.341	1.00	47.07	C
ATOM	3789	CD2	PHE	B	113	34.346	59.075	87.688	1.00	45.23	C
ATOM	3790	CE1	PHE	B	113	32.791	57.185	86.381	1.00	45.38	C
ATOM	3791	CE2	PHE	B	113	32.960	59.164	87.733	1.00	42.04	C
ATOM	3792	CZ	PHE	B	113	32.181	58.214	87.074	1.00	44.56	C
ATOM	3793	N	PRO	B	114	39.207	55.693	88.087	1.00	73.76	N
ATOM	3794	CA	PRO	B	114	40.638	55.464	87.873	1.00	73.60	C
ATOM	3795	C	PRO	B	114	41.066	55.394	86.410	1.00	74.91	C
ATOM	3796	O	PRO	B	114	42.135	55.886	86.051	1.00	77.34	O
ATOM	3797	CB	PRO	B	114	40.884	54.148	88.601	1.00	71.20	C
ATOM	3798	CG	PRO	B	114	39.944	54.241	89.745	1.00	67.92	C
ATOM	3799	CD	PRO	B	114	38.681	54.747	89.087	1.00	71.98	C
ATOM	3800	N	HIS	B	115	40.236	54.795	85.565	1.00	74.32	N
ATOM	3801	CA	HIS	B	115	40.592	54.669	84.160	1.00	83.38	C
ATOM	3802	C	HIS	B	115	40.058	55.806	83.284	1.00	88.29	C
ATOM	3803	O	HIS	B	115	39.536	55.562	82.193	1.00	93.80	O
ATOM	3804	CB	HIS	B	115	40.110	53.314	83.631	1.00	84.54	C
ATOM	3805	CG	HIS	B	115	40.512	52.154	84.492	1.00	85.82	C
ATOM	3806	ND1	HIS	B	115	41.818	51.916	84.865	1.00	85.46	N
ATOM	3807	CD2	HIS	B	115	39.776	51.162	85.049	1.00	86.92	C
ATOM	3808	CE1	HIS	B	115	41.869	50.830	85.614	1.00	84.63	C
ATOM	3809	NE2	HIS	B	115	40.644	50.354	85.740	1.00	86.43	N
ATOM	3810	N	GLY	B	116	40.211	57.044	83.752	1.00	89.99	N
ATOM	3811	CA	GLY	B	116	39.733	58.184	82.989	1.00	93.41	C
ATOM	3812	C	GLY	B	116	38.393	57.817	82.393	1.00	94.87	C
ATOM	3813	O	GLY	B	116	37.605	57.146	83.043	1.00	97.79	O
ATOM	3814	N	ILE	B	117	38.130	58.232	81.162	1.00	93.63	N
ATOM	3815	CA	ILE	B	117	36.866	57.899	80.510	1.00	86.58	C
ATOM	3816	C	ILE	B	117	37.137	56.944	79.359	1.00	85.63	C
ATOM	3817	O	ILE	B	117	36.879	55.751	79.464	1.00	84.99	O
ATOM	3818	CB	ILE	B	117	36.159	59.165	79.968	1.00	81.68	C
ATOM	3819	CG1	ILE	B	117	35.758	60.075	81.137	1.00	81.37	C
ATOM	3820	CG2	ILE	B	117	34.945	58.779	79.133	1.00	76.81	C
ATOM	3821	CD1	ILE	B	117	34.826	59.437	82.146	1.00	63.59	C
ATOM	3822	N	ARG	B	118	37.672	57.489	78.272	1.00	84.43	N
ATOM	3823	CA	ARG	B	118	38.013	56.735	77.076	1.00	90.21	C
ATOM	3824	C	ARG	B	118	37.834	55.219	77.175	1.00	91.62	C
ATOM	3825	O	ARG	B	118	37.005	54.643	76.471	1.00	95.51	O
ATOM	3826	CB	ARG	B	118	39.455	57.038	76.681	1.00	94.90	C
ATOM	3827	CG	ARG	B	118	39.860	56.372	75.396	1.00	109.87	C
ATOM	3828	CD	ARG	B	118	38.921	56.792	74.285	1.00	123.26	C
ATOM	3829	NE	ARG	B	118	39.258	56.170	73.011	1.00	139.42	N
ATOM	3830	CZ	ARG	B	118	38.651	56.449	71.861	1.00	148.72	C
ATOM	3831	NH1	ARG	B	118	37.670	57.343	71.826	1.00	154.54	N
ATOM	3832	NH2	ARG	B	118	39.025	55.839	70.741	1.00	155.19	N
ATOM	3833	N	GLN	B	119	38.628	54.583	78.039	1.00	91.20	N
ATOM	3834	CA	GLN	B	119	38.598	53.129	78.246	1.00	87.63	C
ATOM	3835	C	GLN	B	119	37.222	52.592	78.539	1.00	84.54	C
ATOM	3836	O	GLN	B	119	36.816	51.558	78.004	1.00	84.72	O
ATOM	3837	CB	GLN	B	119	39.511	52.740	79.395	1.00	87.85	C
ATOM	3838	CG	GLN	B	119	40.964	52.985	79.120	1.00	96.11	C
ATOM	3839	CD	GLN	B	119	41.731	53.239	80.387	1.00	102.76	C
ATOM	3840	OE1	GLN	B	119	41.706	52.427	81.314	1.00	108.19	O
ATOM	3841	NE2	GLN	B	119	42.420	54.374	80.442	1.00	107.82	N
ATOM	3842	N	LEU	B	120	36.523	53.287	79.425	1.00	81.03	N
ATOM	3843	CA	LEU	B	120	35.172	52.909	79.798	1.00	81.16	C
ATOM	3844	C	LEU	B	120	34.296	52.969	78.551	1.00	79.11	C
ATOM	3845	O	LEU	B	120	33.442	52.109	78.337	1.00	80.20	O
ATOM	3846	CB	LEU	B	120	34.636	53.870	80.860	1.00	82.48	C
ATOM	3847	CG	LEU	B	120	33.250	53.540	81.410	1.00	82.24	C
ATOM	3848	CD1	LEU	B	120	33.240	52.126	81.954	1.00	88.20	C
ATOM	3849	CD2	LEU	B	120	32.891	54.525	82.493	1.00	86.14	C
ATOM	3850	N	ALA	B	121	34.524	53.992	77.731	1.00	74.63	N
ATOM	3851	CA	ALA	B	121	33.773	54.175	76.495	1.00	73.56	C
ATOM	3852	C	ALA	B	121	34.026	52.990	75.566	1.00	77.77	C
ATOM	3853	O	ALA	B	121	33.161	52.612	74.778	1.00	75.40	O
ATOM	3854	CB	ALA	B	121	34.188	55.472	75.821	1.00	67.34	C
ATOM	3855	N	ASN	B	122	35.217	52.405	75.667	1.00	80.26	N
ATOM	3856	CA	ASN	B	122	35.573	51.254	74.848	1.00	74.20	C
ATOM	3857	C	ASN	B	122	34.767	50.051	75.302	1.00	69.74	C

ATOM	3858	O	ASN	B	122	34.318	49.246	74.487	1.00	60.92	O
ATOM	3859	CB	ASN	B	122	37.058	50.948	74.977	1.00	73.48	C
ATOM	3860	CG	ASN	B	122	37.916	52.101	74.539	1.00	70.43	C
ATOM	3861	OD1	ASN	B	122	37.750	52.625	73.440	1.00	66.39	O
ATOM	3862	ND2	ASN	B	122	38.840	52.511	75.397	1.00	77.29	N
ATOM	3863	N	TYR	B	123	34.594	49.926	76.614	1.00	62.16	N
ATOM	3864	CA	TYR	B	123	33.814	48.825	77.163	1.00	60.68	C
ATOM	3865	C	TYR	B	123	32.346	49.059	76.814	1.00	57.45	C
ATOM	3866	O	TYR	B	123	31.596	48.121	76.532	1.00	65.68	O
ATOM	3867	CB	TYR	B	123	33.993	48.738	78.685	1.00	62.55	C
ATOM	3868	CG	TYR	B	123	33.158	47.648	79.333	1.00	75.95	C
ATOM	3869	CD1	TYR	B	123	32.736	46.533	78.596	1.00	84.78	C
ATOM	3870	CD2	TYR	B	123	32.787	47.725	80.678	1.00	76.33	C
ATOM	3871	CE1	TYR	B	123	31.959	45.526	79.174	1.00	88.63	C
ATOM	3872	CE2	TYR	B	123	32.011	46.717	81.272	1.00	84.64	C
ATOM	3873	CZ	TYR	B	123	31.599	45.622	80.512	1.00	90.58	C
ATOM	3874	OH	TYR	B	123	30.823	44.629	81.079	1.00	91.09	O
ATOM	3875	N	VAL	B	124	31.945	50.325	76.835	1.00	47.96	N
ATOM	3876	CA	VAL	B	124	30.579	50.702	76.495	1.00	40.47	C
ATOM	3877	C	VAL	B	124	30.385	50.405	75.022	1.00	36.98	C
ATOM	3878	O	VAL	B	124	29.422	49.741	74.635	1.00	32.23	O
ATOM	3879	CB	VAL	B	124	30.333	52.209	76.725	1.00	41.05	C
ATOM	3880	CG1	VAL	B	124	28.959	52.603	76.192	1.00	57.93	C
ATOM	3881	CG2	VAL	B	124	30.449	52.535	78.211	1.00	38.22	C
ATOM	3882	N	HIS	B	125	31.317	50.904	74.213	1.00	37.79	N
ATOM	3883	CA	HIS	B	125	31.289	50.699	72.770	1.00	44.03	C
ATOM	3884	C	HIS	B	125	31.390	49.215	72.427	1.00	49.90	C
ATOM	3885	O	HIS	B	125	30.774	48.750	71.466	1.00	49.08	O
ATOM	3886	CB	HIS	B	125	32.437	51.468	72.123	1.00	51.70	C
ATOM	3887	CG	HIS	B	125	32.200	52.941	72.049	1.00	58.07	C
ATOM	3888	ND1	HIS	B	125	31.181	53.488	71.301	1.00	67.26	N
ATOM	3889	CD2	HIS	B	125	32.852	53.983	72.617	1.00	54.50	C
ATOM	3890	CE1	HIS	B	125	31.216	54.805	71.410	1.00	63.10	C
ATOM	3891	NE2	HIS	B	125	32.221	55.131	72.203	1.00	53.80	N
ATOM	3892	N	SER	B	126	32.173	48.488	73.224	1.00	53.77	N
ATOM	3893	CA	SER	B	126	32.365	47.058	73.033	1.00	53.79	C
ATOM	3894	C	SER	B	126	31.012	46.368	73.086	1.00	50.23	C
ATOM	3895	O	SER	B	126	30.654	45.625	72.177	1.00	48.90	O
ATOM	3896	CB	SER	B	126	33.344	46.506	74.071	1.00	55.88	C
ATOM	3897	OG	SER	B	126	33.593	45.128	73.854	1.00	60.00	O
ATOM	3898	N	LYS	B	127	30.259	46.621	74.152	1.00	48.17	N
ATOM	3899	CA	LYS	B	127	28.936	46.022	74.326	1.00	43.19	C
ATOM	3900	C	LYS	B	127	27.983	46.468	73.215	1.00	41.85	C
ATOM	3901	O	LYS	B	127	26.850	45.981	73.122	1.00	42.05	O
ATOM	3902	CB	LYS	B	127	28.363	46.395	75.706	1.00	40.95	C
ATOM	3903	CG	LYS	B	127	29.061	45.730	76.897	1.00	52.33	C
ATOM	3904	CD	LYS	B	127	28.661	44.257	77.061	1.00	62.13	C
ATOM	3905	CE	LYS	B	127	29.138	43.369	75.907	1.00	70.05	C
ATOM	3906	NZ	LYS	B	127	28.684	41.956	76.050	1.00	77.94	N
ATOM	3907	N	GLY	B	128	28.455	47.379	72.364	1.00	40.27	N
ATOM	3908	CA	GLY	B	128	27.620	47.865	71.280	1.00	40.59	C
ATOM	3909	C	GLY	B	128	26.784	49.080	71.644	1.00	40.05	C
ATOM	3910	O	GLY	B	128	25.936	49.520	70.860	1.00	36.76	O
ATOM	3911	N	LEU	B	129	27.022	49.633	72.829	1.00	37.74	N
ATOM	3912	CA	LEU	B	129	26.267	50.795	73.275	1.00	37.57	C
ATOM	3913	C	LEU	B	129	26.992	52.101	73.030	1.00	40.12	C
ATOM	3914	O	LEU	B	129	28.150	52.119	72.608	1.00	42.48	O
ATOM	3915	CB	LEU	B	129	25.947	50.663	74.752	1.00	39.84	C
ATOM	3916	CG	LEU	B	129	25.336	49.290	75.001	1.00	48.99	C
ATOM	3917	CD1	LEU	B	129	25.295	48.994	76.497	1.00	57.24	C
ATOM	3918	CD2	LEU	B	129	23.953	49.241	74.365	1.00	51.52	C
ATOM	3919	N	LYS	B	130	26.289	53.195	73.296	1.00	42.18	N
ATOM	3920	CA	LYS	B	130	26.840	54.526	73.117	1.00	44.52	C
ATOM	3921	C	LYS	B	130	26.832	55.227	74.471	1.00	43.45	C
ATOM	3922	O	LYS	B	130	25.874	55.112	75.241	1.00	45.86	O
ATOM	3923	CB	LYS	B	130	26.014	55.290	72.071	1.00	48.00	C
ATOM	3924	CG	LYS	B	130	25.843	54.502	70.758	1.00	57.40	C
ATOM	3925	CD	LYS	B	130	25.623	55.398	69.539	1.00	60.91	C
ATOM	3926	CE	LYS	B	130	25.521	54.589	68.242	1.00	69.51	C
ATOM	3927	NZ	LYS	B	130	26.745	53.785	67.943	1.00	75.65	N
ATOM	3928	N	LEU	B	131	27.919	55.934	74.763	1.00	38.94	N
ATOM	3929	CA	LEU	B	131	28.068	56.641	76.033	1.00	35.19	C
ATOM	3930	C	LEU	B	131	27.713	58.119	75.977	1.00	35.30	C
ATOM	3931	O	LEU	B	131	27.893	58.783	74.950	1.00	34.57	O
ATOM	3932	CB	LEU	B	131	29.503	56.511	76.545	1.00	34.64	C
ATOM	3933	CG	LEU	B	131	29.895	57.534	77.617	1.00	35.78	C
ATOM	3934	CD1	LEU	B	131	29.198	57.191	78.928	1.00	40.68	C
ATOM	3935	CD2	LEU	B	131	31.411	57.551	77.794	1.00	40.94	C
ATOM	3936	N	GLY	B	132	27.226	58.620	77.110	1.00	32.17	N

ATOM	3937	CA	GLY	B	132	26.850	60.015	77.225	1.00	34.16	C
ATOM	3938	C	GLY	B	132	27.376	60.621	78.511	1.00	32.84	C
ATOM	3939	O	GLY	B	132	27.355	59.989	79.565	1.00	25.66	O
ATOM	3940	N	ILE	B	133	27.829	61.863	78.433	1.00	32.91	N
ATOM	3941	CA	ILE	B	133	28.370	62.520	79.601	1.00	35.91	C
ATOM	3942	C	ILE	B	133	27.638	63.813	79.908	1.00	36.56	C
ATOM	3943	O	ILE	B	133	27.031	64.414	79.037	1.00	34.58	O
ATOM	3944	CB	ILE	B	133	29.850	62.811	79.386	1.00	38.58	C
ATOM	3945	CG1	ILE	B	133	30.493	63.256	80.700	1.00	34.22	C
ATOM	3946	CG2	ILE	B	133	30.012	63.829	78.269	1.00	39.58	C
ATOM	3947	CD1	ILE	B	133	30.528	62.165	81.763	1.00	29.09	C
ATOM	3948	N	TYR	B	134	27.715	64.236	81.158	1.00	39.58	N
ATOM	3949	CA	TYR	B	134	27.060	65.449	81.634	1.00	40.75	C
ATOM	3950	C	TYR	B	134	28.064	66.602	81.702	1.00	44.66	C
ATOM	3951	O	TYR	B	134	29.239	66.384	81.981	1.00	47.96	O
ATOM	3952	CB	TYR	B	134	26.476	65.159	83.021	1.00	42.20	C
ATOM	3953	CG	TYR	B	134	25.949	66.352	83.771	1.00	40.59	C
ATOM	3954	CD1	TYR	B	134	24.587	66.497	84.019	1.00	48.82	C
ATOM	3955	CD2	TYR	B	134	26.816	67.317	84.271	1.00	42.81	C
ATOM	3956	CE1	TYR	B	134	24.105	67.572	84.754	1.00	54.88	C
ATOM	3957	CE2	TYR	B	134	26.349	68.392	85.000	1.00	53.26	C
ATOM	3958	CZ	TYR	B	134	24.995	68.517	85.242	1.00	55.73	C
ATOM	3959	OH	TYR	B	134	24.547	69.590	85.983	1.00	63.04	O
ATOM	3960	N	ALA	B	135	27.606	67.824	81.450	1.00	50.40	N
ATOM	3961	CA	ALA	B	135	28.483	68.994	81.505	1.00	53.10	C
ATOM	3962	C	ALA	B	135	27.645	70.196	81.863	1.00	50.94	C
ATOM	3963	O	ALA	B	135	26.420	70.109	81.852	1.00	52.75	O
ATOM	3964	CB	ALA	B	135	29.150	69.216	80.166	1.00	56.05	C
ATOM	3965	N	ASP	B	136	28.286	71.317	82.182	1.00	47.58	N
ATOM	3966	CA	ASP	B	136	27.517	72.514	82.516	1.00	51.44	C
ATOM	3967	C	ASP	B	136	28.057	73.772	81.870	1.00	50.71	C
ATOM	3968	O	ASP	B	136	29.253	74.053	81.926	1.00	52.19	O
ATOM	3969	CB	ASP	B	136	27.439	72.738	84.023	1.00	53.41	C
ATOM	3970	CG	ASP	B	136	26.253	73.613	84.417	1.00	54.28	C
ATOM	3971	OD1	ASP	B	136	26.169	74.774	83.953	1.00	49.26	O
ATOM	3972	OD2	ASP	B	136	25.403	73.128	85.194	1.00	57.23	O
ATOM	3973	N	VAL	B	137	27.140	74.538	81.285	1.00	50.15	N
ATOM	3974	CA	VAL	B	137	27.462	75.772	80.570	1.00	53.39	C
ATOM	3975	C	VAL	B	137	28.094	76.859	81.424	1.00	57.91	C
ATOM	3976	O	VAL	B	137	28.979	77.579	80.958	1.00	56.13	O
ATOM	3977	CB	VAL	B	137	26.203	76.369	79.905	1.00	50.32	C
ATOM	3978	CG1	VAL	B	137	25.276	76.941	80.992	1.00	49.20	C
ATOM	3979	CG2	VAL	B	137	26.602	77.423	78.899	1.00	46.21	C
ATOM	3980	N	GLY	B	138	27.636	76.974	82.665	1.00	60.72	N
ATOM	3981	CA	GLY	B	138	28.157	77.997	83.548	1.00	68.11	C
ATOM	3982	C	GLY	B	138	29.502	77.752	84.198	1.00	75.30	C
ATOM	3983	O	GLY	B	138	30.329	76.994	83.696	1.00	81.96	O
ATOM	3984	N	ASN	B	139	29.737	78.432	85.316	1.00	76.76	N
ATOM	3985	CA	ASN	B	139	30.986	78.263	86.044	1.00	76.95	C
ATOM	3986	C	ASN	B	139	30.985	76.941	86.823	1.00	72.32	C
ATOM	3987	O	ASN	B	139	32.049	76.426	87.180	1.00	69.26	O
ATOM	3988	CB	ASN	B	139	31.247	79.471	86.970	1.00	84.95	C
ATOM	3989	CG	ASN	B	139	31.905	80.641	86.235	1.00	100.73	C
ATOM	3990	OD1	ASN	B	139	32.837	80.436	85.454	1.00	103.77	O
ATOM	3991	ND2	ASN	B	139	31.443	81.863	86.494	1.00	114.03	N
ATOM	3992	N	LYS	B	140	29.795	76.375	87.047	1.00	66.89	N
ATOM	3993	CA	LYS	B	140	29.666	75.100	87.772	1.00	58.23	C
ATOM	3994	C	LYS	B	140	28.493	74.240	87.305	1.00	52.16	C
ATOM	3995	O	LYS	B	140	27.529	74.744	86.725	1.00	55.77	O
ATOM	3996	CB	LYS	B	140	29.487	75.337	89.270	1.00	53.93	C
ATOM	3997	CG	LYS	B	140	30.731	75.673	90.030	1.00	58.96	C
ATOM	3998	CD	LYS	B	140	30.379	75.977	91.473	1.00	62.89	C
ATOM	3999	CE	LYS	B	140	31.574	76.508	92.230	1.00	72.22	C
ATOM	4000	NZ	LYS	B	140	31.204	77.024	93.572	1.00	67.74	N
ATOM	4001	N	THR	B	141	28.591	72.936	87.556	1.00	44.73	N
ATOM	4002	CA	THR	B	141	27.522	72.003	87.213	1.00	40.60	C
ATOM	4003	C	THR	B	141	26.572	72.238	88.380	1.00	39.67	C
ATOM	4004	O	THR	B	141	26.978	72.853	89.368	1.00	37.84	O
ATOM	4005	CB	THR	B	141	28.009	70.541	87.265	1.00	41.32	C
ATOM	4006	OG1	THR	B	141	28.330	70.175	88.621	1.00	33.01	O
ATOM	4007	CG2	THR	B	141	29.252	70.376	86.424	1.00	55.06	C
ATOM	4008	N	CYS	B	142	25.323	71.788	88.293	1.00	44.64	N
ATOM	4009	CA	CYS	B	142	24.431	72.027	89.419	1.00	54.48	C
ATOM	4010	C	CYS	B	142	25.013	71.360	90.654	1.00	55.63	C
ATOM	4011	O	CYS	B	142	24.552	71.590	91.763	1.00	57.67	O
ATOM	4012	CB	CYS	B	142	23.010	71.502	89.162	1.00	64.07	C
ATOM	4013	SG	CYS	B	142	22.094	72.315	87.816	1.00	82.05	S
ATOM	4014	N	ALA	B	143	26.046	70.546	90.458	1.00	60.48	N
ATOM	4015	CA	ALA	B	143	26.692	69.843	91.566	1.00	68.18	C



ATOM	4016	C	ALA	B	143	27.738	70.688	92.290	1.00	73.02	C
ATOM	4017	O	ALA	B	143	27.992	70.485	93.476	1.00	76.04	O
ATOM	4018	CB	ALA	B	143	27.335	68.574	91.060	1.00	64.16	C
ATOM	4019	N	GLY	B	144	28.335	71.638	91.579	1.00	75.69	N
ATOM	4020	CA	GLY	B	144	29.349	72.483	92.182	1.00	75.17	C
ATOM	4021	C	GLY	B	144	30.660	72.221	91.493	1.00	72.42	C
ATOM	4022	O	GLY	B	144	31.612	72.984	91.612	1.00	81.53	O
ATOM	4023	N	PHE	B	145	30.710	71.120	90.763	1.00	66.62	N
ATOM	4024	CA	PHE	B	145	31.918	70.766	90.043	1.00	66.98	C
ATOM	4025	C	PHE	B	145	32.186	71.651	88.847	1.00	66.01	C
ATOM	4026	O	PHE	B	145	31.343	72.446	88.459	1.00	60.69	O
ATOM	4027	CB	PHE	B	145	31.835	69.290	89.625	1.00	71.25	C
ATOM	4028	CG	PHE	B	145	31.877	68.341	90.769	1.00	77.67	C
ATOM	4029	CD1	PHE	B	145	33.013	68.230	91.555	1.00	80.29	C
ATOM	4030	CD2	PHE	B	145	30.762	67.581	91.078	1.00	81.09	C
ATOM	4031	CE1	PHE	B	145	33.041	67.351	92.626	1.00	83.24	C
ATOM	4032	CE2	PHE	B	145	30.781	66.704	92.140	1.00	79.03	C
ATOM	4033	CZ	PHE	B	145	31.928	66.601	92.923	1.00	82.39	C
ATOM	4034	N	PRO	B	146	33.391	71.547	88.281	1.00	66.92	N
ATOM	4035	CA	PRO	B	146	33.805	72.326	87.116	1.00	72.84	C
ATOM	4036	C	PRO	B	146	32.679	72.710	86.171	1.00	74.18	C
ATOM	4037	O	PRO	B	146	31.763	71.937	85.950	1.00	79.02	O
ATOM	4038	CB	PRO	B	146	34.812	71.406	86.450	1.00	70.20	C
ATOM	4039	CG	PRO	B	146	35.519	70.851	87.622	1.00	68.37	C
ATOM	4040	CD	PRO	B	146	34.427	70.561	88.640	1.00	70.17	C
ATOM	4041	N	GLY	B	147	32.746	73.935	85.668	1.00	69.21	N
ATOM	4042	CA	GLY	B	147	31.738	74.417	84.761	1.00	62.89	C
ATOM	4043	C	GLY	B	147	32.109	74.050	83.344	1.00	62.01	C
ATOM	4044	O	GLY	B	147	32.238	72.877	83.002	1.00	64.67	O
ATOM	4045	N	SER	B	148	32.313	75.061	82.513	1.00	59.34	N
ATOM	4046	CA	SER	B	148	32.684	74.856	81.114	1.00	60.60	C
ATOM	4047	C	SER	B	148	32.804	76.228	80.474	1.00	63.91	C
ATOM	4048	O	SER	B	148	33.196	76.349	79.311	1.00	60.85	O
ATOM	4049	CB	SER	B	148	31.623	74.024	80.391	1.00	58.56	C
ATOM	4050	OG	SER	B	148	31.821	72.637	80.589	1.00	55.66	O
ATOM	4051	N	PHE	B	149	32.480	77.257	81.258	1.00	68.09	N
ATOM	4052	CA	PHE	B	149	32.538	78.634	80.789	1.00	71.36	C
ATOM	4053	C	PHE	B	149	33.915	78.948	80.225	1.00	71.71	C
ATOM	4054	O	PHE	B	149	34.918	78.815	80.918	1.00	68.70	O
ATOM	4055	CB	PHE	B	149	32.208	79.591	81.933	1.00	74.46	C
ATOM	4056	CG	PHE	B	149	32.067	81.011	81.502	1.00	80.96	C
ATOM	4057	CD1	PHE	B	149	31.299	81.327	80.396	1.00	83.72	C
ATOM	4058	CD2	PHE	B	149	32.679	82.034	82.209	1.00	83.76	C
ATOM	4059	CE1	PHE	B	149	31.148	82.644	79.989	1.00	85.06	C
ATOM	4060	CE2	PHE	B	149	32.533	83.359	81.809	1.00	81.79	C
ATOM	4061	CZ	PHE	B	149	31.765	83.664	80.703	1.00	83.91	C
ATOM	4062	N	GLY	B	150	33.957	79.377	78.968	1.00	73.51	N
ATOM	4063	CA	GLY	B	150	35.227	79.687	78.337	1.00	76.77	C
ATOM	4064	C	GLY	B	150	36.113	78.455	78.280	1.00	81.69	C
ATOM	4065	O	GLY	B	150	37.287	78.509	78.637	1.00	87.49	O
ATOM	4066	N	TYR	B	151	35.542	77.340	77.840	1.00	82.32	N
ATOM	4067	CA	TYR	B	151	36.266	76.084	77.740	1.00	78.21	C
ATOM	4068	C	TYR	B	151	35.574	75.220	76.698	1.00	72.56	C
ATOM	4069	O	TYR	B	151	36.126	74.218	76.234	1.00	67.01	O
ATOM	4070	CB	TYR	B	151	36.246	75.347	79.079	1.00	85.01	C
ATOM	4071	CG	TYR	B	151	37.105	75.933	80.175	1.00	89.11	C
ATOM	4072	CD1	TYR	B	151	38.496	75.857	80.116	1.00	93.62	C
ATOM	4073	CD2	TYR	B	151	36.526	76.511	81.303	1.00	91.80	C
ATOM	4074	CE1	TYR	B	151	39.285	76.335	81.160	1.00	97.48	C
ATOM	4075	CE2	TYR	B	151	37.308	76.991	82.347	1.00	95.25	C
ATOM	4076	CZ	TYR	B	151	38.684	76.900	82.270	1.00	97.70	C
ATOM	4077	OH	TYR	B	151	39.457	77.376	83.301	1.00	95.96	O
ATOM	4078	N	TYR	B	152	34.358	75.623	76.340	1.00	71.16	N
ATOM	4079	CA	TYR	B	152	33.533	74.908	75.365	1.00	69.56	C
ATOM	4080	C	TYR	B	152	34.365	74.161	74.352	1.00	69.71	C
ATOM	4081	O	TYR	B	152	34.414	72.933	74.371	1.00	71.60	O
ATOM	4082	CB	TYR	B	152	32.604	75.880	74.639	1.00	68.44	C
ATOM	4083	CG	TYR	B	152	31.750	76.702	75.583	1.00	64.03	C
ATOM	4084	CD1	TYR	B	152	30.984	76.088	76.580	1.00	64.13	C
ATOM	4085	CD2	TYR	B	152	31.719	78.095	75.494	1.00	62.52	C
ATOM	4086	CE1	TYR	B	152	30.212	76.848	77.469	1.00	70.44	C
ATOM	4087	CE2	TYR	B	152	30.949	78.863	76.375	1.00	66.13	C
ATOM	4088	CZ	TYR	B	152	30.199	78.239	77.361	1.00	66.32	C
ATOM	4089	OH	TYR	B	152	29.452	79.005	78.239	1.00	52.68	O
ATOM	4090	N	ASP	B	153	35.026	74.900	73.471	1.00	70.05	N
ATOM	4091	CA	ASP	B	153	35.860	74.267	72.459	1.00	77.32	C
ATOM	4092	C	ASP	B	153	36.745	73.165	73.063	1.00	76.38	C
ATOM	4093	O	ASP	B	153	36.656	72.005	72.654	1.00	80.52	O
ATOM	4094	CB	ASP	B	153	36.724	75.317	71.752	1.00	81.72	C



ATOM	4095	CG	ASP	B	153	35.897	76.312	70.953	1.00	84.14	C
ATOM	4096	OD1	ASP	B	153	35.091	75.877	70.099	1.00	75.91	O
ATOM	4097	OD2	ASP	B	153	36.063	77.530	71.177	1.00	92.08	O
ATOM	4098	N	ILE	B	154	37.590	73.522	74.031	1.00	71.17	N
ATOM	4099	CA	ILE	B	154	38.461	72.535	74.662	1.00	66.26	C
ATOM	4100	C	ILE	B	154	37.667	71.296	75.040	1.00	62.46	C
ATOM	4101	O	ILE	B	154	37.888	70.204	74.502	1.00	58.97	O
ATOM	4102	CB	ILE	B	154	39.100	73.077	75.933	1.00	68.18	C
ATOM	4103	CG1	ILE	B	154	40.058	74.212	75.590	1.00	66.88	C
ATOM	4104	CG2	ILE	B	154	39.843	71.972	76.639	1.00	65.40	C
ATOM	4105	CD1	ILE	B	154	40.717	74.829	76.800	1.00	64.67	C
ATOM	4106	N	ASP	B	155	36.739	71.475	75.975	1.00	60.27	N
ATOM	4107	CA	ASP	B	155	35.888	70.384	76.436	1.00	61.51	C
ATOM	4108	C	ASP	B	155	35.354	69.547	75.265	1.00	56.82	C
ATOM	4109	O	ASP	B	155	35.524	68.328	75.223	1.00	51.29	O
ATOM	4110	CB	ASP	B	155	34.724	70.951	77.254	1.00	67.35	C
ATOM	4111	CG	ASP	B	155	35.190	71.612	78.532	1.00	73.00	C
ATOM	4112	OD1	ASP	B	155	34.337	72.135	79.280	1.00	76.43	O
ATOM	4113	OD2	ASP	B	155	36.417	71.604	78.785	1.00	72.06	O
ATOM	4114	N	ALA	B	156	34.717	70.206	74.308	1.00	56.69	N
ATOM	4115	CA	ALA	B	156	34.183	69.499	73.162	1.00	62.83	C
ATOM	4116	C	ALA	B	156	35.229	68.523	72.644	1.00	66.71	C
ATOM	4117	O	ALA	B	156	35.047	67.314	72.730	1.00	70.40	O
ATOM	4118	CB	ALA	B	156	33.796	70.486	72.072	1.00	70.53	C
ATOM	4119	N	GLN	B	157	36.332	69.049	72.123	1.00	69.39	N
ATOM	4120	CA	GLN	B	157	37.389	68.198	71.590	1.00	69.42	C
ATOM	4121	C	GLN	B	157	37.684	67.092	72.591	1.00	64.80	C
ATOM	4122	O	GLN	B	157	37.807	65.922	72.224	1.00	67.28	O
ATOM	4123	CB	GLN	B	157	38.660	69.011	71.326	1.00	76.41	C
ATOM	4124	CG	GLN	B	157	39.356	68.627	70.038	1.00	86.50	C
ATOM	4125	CD	GLN	B	157	38.481	68.880	68.826	1.00	89.81	C
ATOM	4126	OE1	GLN	B	157	38.127	70.023	68.534	1.00	87.85	O
ATOM	4127	NE2	GLN	B	157	38.120	67.813	68.115	1.00	87.49	N
ATOM	4128	N	THR	B	158	37.792	67.470	73.859	1.00	55.40	N
ATOM	4129	CA	THR	B	158	38.054	66.502	74.904	1.00	54.68	C
ATOM	4130	C	THR	B	158	37.122	65.310	74.725	1.00	58.74	C
ATOM	4131	O	THR	B	158	37.561	64.237	74.305	1.00	62.62	O
ATOM	4132	CB	THR	B	158	37.829	67.111	76.297	1.00	50.56	C
ATOM	4133	OG1	THR	B	158	38.733	68.206	76.490	1.00	55.92	O
ATOM	4134	CG2	THR	B	158	38.066	66.066	77.378	1.00	46.19	C
ATOM	4135	N	PHE	B	159	35.839	65.507	75.035	1.00	59.45	N
ATOM	4136	CA	PHE	B	159	34.824	64.451	74.905	1.00	57.19	C
ATOM	4137	C	PHE	B	159	34.946	63.760	73.552	1.00	56.03	C
ATOM	4138	O	PHE	B	159	34.990	62.531	73.468	1.00	50.18	O
ATOM	4139	CB	PHE	B	159	33.407	65.023	74.972	1.00	55.49	C
ATOM	4140	CG	PHE	B	159	33.135	65.862	76.173	1.00	54.45	C
ATOM	4141	CD1	PHE	B	159	33.154	65.308	77.440	1.00	54.51	C
ATOM	4142	CD2	PHE	B	159	32.824	67.212	76.030	1.00	54.14	C
ATOM	4143	CE1	PHE	B	159	32.863	66.087	78.555	1.00	54.81	C
ATOM	4144	CE2	PHE	B	159	32.532	68.000	77.134	1.00	54.93	C
ATOM	4145	CZ	PHE	B	159	32.551	67.439	78.403	1.00	51.81	C
ATOM	4146	N	ALA	B	160	34.966	64.570	72.495	1.00	58.19	N
ATOM	4147	CA	ALA	B	160	35.069	64.071	71.134	1.00	66.53	C
ATOM	4148	C	ALA	B	160	36.186	63.050	71.061	1.00	73.96	C
ATOM	4149	O	ALA	B	160	36.047	62.001	70.425	1.00	80.27	O
ATOM	4150	CB	ALA	B	160	35.341	65.224	70.178	1.00	64.98	C
ATOM	4151	N	ASP	B	161	37.295	63.372	71.716	1.00	79.36	N
ATOM	4152	CA	ASP	B	161	38.449	62.491	71.751	1.00	81.74	C
ATOM	4153	C	ASP	B	161	38.125	61.253	72.563	1.00	79.93	C
ATOM	4154	O	ASP	B	161	38.298	60.122	72.099	1.00	76.06	O
ATOM	4155	CB	ASP	B	161	39.643	63.206	72.377	1.00	87.77	C
ATOM	4156	CG	ASP	B	161	40.587	63.762	71.340	1.00	94.92	C
ATOM	4157	OD1	ASP	B	161	40.142	64.578	70.501	1.00	97.76	O
ATOM	4158	OD2	ASP	B	161	41.776	63.375	71.362	1.00	101.23	O
ATOM	4159	N	TRP	B	162	37.640	61.490	73.778	1.00	78.90	N
ATOM	4160	CA	TRP	B	162	37.286	60.435	74.718	1.00	77.64	C
ATOM	4161	C	TRP	B	162	36.407	59.352	74.117	1.00	76.70	C
ATOM	4162	O	TRP	B	162	36.345	58.234	74.634	1.00	74.99	O
ATOM	4163	CB	TRP	B	162	36.585	61.043	75.924	1.00	80.13	C
ATOM	4164	CG	TRP	B	162	37.501	61.751	76.849	1.00	85.52	C
ATOM	4165	CD1	TRP	B	162	38.852	61.892	76.726	1.00	88.24	C
ATOM	4166	CD2	TRP	B	162	37.142	62.371	78.081	1.00	84.79	C
ATOM	4167	NE1	TRP	B	162	39.360	62.559	77.813	1.00	87.19	N
ATOM	4168	CE2	TRP	B	162	38.330	62.865	78.662	1.00	82.08	C
ATOM	4169	CE3	TRP	B	162	35.931	62.555	78.754	1.00	87.25	C
ATOM	4170	CZ2	TRP	B	162	38.342	63.535	79.887	1.00	77.70	C
ATOM	4171	CZ3	TRP	B	162	35.942	63.220	79.971	1.00	88.61	C
ATOM	4172	CH2	TRP	B	162	37.142	63.702	80.526	1.00	80.08	C
ATOM	4173	N	GLY	B	163	35.728	59.699	73.027	1.00	75.99	N

ATOM	4174	CA	GLY	B	163	34.849	58.762	72.350	1.00	72.23	C
ATOM	4175	C	GLY	B	163	33.404	58.855	72.810	1.00	67.68	C
ATOM	4176	O	GLY	B	163	32.709	57.844	72.893	1.00	71.72	O
ATOM	4177	N	VAL	B	164	32.948	60.068	73.110	1.00	59.84	N
ATOM	4178	CA	VAL	B	164	31.580	60.280	73.571	1.00	54.18	C
ATOM	4179	C	VAL	B	164	30.579	60.240	72.426	1.00	56.41	C
ATOM	4180	O	VAL	B	164	30.911	60.513	71.265	1.00	61.84	O
ATOM	4181	CB	VAL	B	164	31.426	61.630	74.278	1.00	52.19	C
ATOM	4182	CG1	VAL	B	164	30.036	61.743	74.869	1.00	54.51	C
ATOM	4183	CG2	VAL	B	164	32.481	61.775	75.357	1.00	57.52	C
ATOM	4184	N	ASP	B	165	29.342	59.898	72.760	1.00	56.55	N
ATOM	4185	CA	ASP	B	165	28.296	59.829	71.756	1.00	56.28	C
ATOM	4186	C	ASP	B	165	27.177	60.794	72.079	1.00	52.94	C
ATOM	4187	O	ASP	B	165	26.414	61.164	71.197	1.00	55.38	O
ATOM	4188	CB	ASP	B	165	27.716	58.419	71.677	1.00	54.55	C
ATOM	4189	CG	ASP	B	165	28.762	57.377	71.360	1.00	59.13	C
ATOM	4190	OD1	ASP	B	165	29.424	57.484	70.301	1.00	64.14	O
ATOM	4191	OD2	ASP	B	165	28.919	56.448	72.179	1.00	62.71	O
ATOM	4192	N	LEU	B	166	27.082	61.211	73.335	1.00	41.96	N
ATOM	4193	CA	LEU	B	166	26.011	62.115	73.726	1.00	34.65	C
ATOM	4194	C	LEU	B	166	26.376	63.017	74.896	1.00	36.39	C
ATOM	4195	O	LEU	B	166	27.021	62.579	75.853	1.00	34.13	O
ATOM	4196	CB	LEU	B	166	24.766	61.288	74.067	1.00	36.44	C
ATOM	4197	CG	LEU	B	166	23.492	61.955	74.604	1.00	40.91	C
ATOM	4198	CD1	LEU	B	166	22.372	60.921	74.633	1.00	48.27	C
ATOM	4199	CD2	LEU	B	166	23.718	62.530	75.999	1.00	39.68	C
ATOM	4200	N	LEU	B	167	25.939	64.275	74.822	1.00	38.87	N
ATOM	4201	CA	LEU	B	167	26.211	65.256	75.878	1.00	37.54	C
ATOM	4202	C	LEU	B	167	24.970	65.902	76.508	1.00	39.34	C
ATOM	4203	O	LEU	B	167	24.131	66.474	75.812	1.00	34.28	O
ATOM	4204	CB	LEU	B	167	27.103	66.383	75.339	1.00	39.21	C
ATOM	4205	CG	LEU	B	167	27.327	67.493	76.372	1.00	43.73	C
ATOM	4206	CD1	LEU	B	167	28.163	66.910	77.477	1.00	38.20	C
ATOM	4207	CD2	LEU	B	167	28.017	68.711	75.769	1.00	43.30	C
ATOM	4208	N	LYS	B	168	24.854	65.815	77.824	1.00	45.42	N
ATOM	4209	CA	LYS	B	168	23.739	66.459	78.502	1.00	47.97	C
ATOM	4210	C	LYS	B	168	24.297	67.786	78.993	1.00	48.67	C
ATOM	4211	O	LYS	B	168	25.029	67.840	79.994	1.00	53.51	O
ATOM	4212	CB	LYS	B	168	23.238	65.632	79.701	1.00	56.24	C
ATOM	4213	CG	LYS	B	168	22.174	66.356	80.567	1.00	58.69	C
ATOM	4214	CD	LYS	B	168	21.531	65.474	81.651	1.00	49.99	C
ATOM	4215	CE	LYS	B	168	20.366	66.183	82.344	1.00	40.97	C
ATOM	4216	NZ	LYS	B	168	19.583	65.271	83.228	1.00	32.80	N
ATOM	4217	N	PHE	B	169	23.968	68.860	78.292	1.00	45.83	N
ATOM	4218	CA	PHE	B	169	24.479	70.154	78.703	1.00	51.92	C
ATOM	4219	C	PHE	B	169	23.537	70.897	79.656	1.00	51.04	C
ATOM	4220	O	PHE	B	169	22.569	71.531	79.238	1.00	52.94	O
ATOM	4221	CB	PHE	B	169	24.779	70.998	77.470	1.00	61.58	C
ATOM	4222	CG	PHE	B	169	25.913	71.948	77.665	1.00	70.42	C
ATOM	4223	CD1	PHE	B	169	27.112	71.500	78.199	1.00	72.62	C
ATOM	4224	CD2	PHE	B	169	25.786	73.286	77.319	1.00	74.80	C
ATOM	4225	CE1	PHE	B	169	28.168	72.369	78.388	1.00	75.63	C
ATOM	4226	CE2	PHE	B	169	26.837	74.165	77.504	1.00	74.97	C
ATOM	4227	CZ	PHE	B	169	28.033	73.706	78.040	1.00	78.45	C
ATOM	4228	N	ASP	B	170	23.834	70.801	80.946	1.00	49.60	N
ATOM	4229	CA	ASP	B	170	23.043	71.440	81.989	1.00	48.02	C
ATOM	4230	C	ASP	B	170	23.400	72.925	82.095	1.00	47.03	C
ATOM	4231	O	ASP	B	170	24.450	73.344	81.642	1.00	44.69	O
ATOM	4232	CB	ASP	B	170	23.313	70.723	83.315	1.00	50.49	C
ATOM	4233	CG	ASP	B	170	22.397	71.171	84.424	1.00	53.05	C
ATOM	4234	OD1	ASP	B	170	21.655	72.153	84.243	1.00	51.74	O
ATOM	4235	OD2	ASP	B	170	22.421	70.538	85.493	1.00	55.89	O
ATOM	4236	N	GLY	B	171	22.529	73.720	82.702	1.00	48.16	N
ATOM	4237	CA	GLY	B	171	22.803	75.142	82.827	1.00	52.27	C
ATOM	4238	C	GLY	B	171	22.651	75.797	84.196	1.00	51.81	C
ATOM	4239	O	GLY	B	171	21.801	76.667	84.401	1.00	48.95	O
ATOM	4240	N	CYS	B	172	23.486	75.393	85.141	1.00	56.08	N
ATOM	4241	CA	CYS	B	172	23.446	75.986	86.467	1.00	59.63	C
ATOM	4242	C	CYS	B	172	24.604	76.961	86.546	1.00	65.06	C
ATOM	4243	O	CYS	B	172	25.689	76.671	86.041	1.00	65.52	O
ATOM	4244	CB	CYS	B	172	23.627	74.920	87.551	1.00	62.77	C
ATOM	4245	SG	CYS	B	172	22.108	74.277	88.318	1.00	73.86	S
ATOM	4246	N	TYR	B	173	24.374	78.119	87.154	1.00	69.24	N
ATOM	4247	CA	TYR	B	173	25.440	79.102	87.330	1.00	72.13	C
ATOM	4248	C	TYR	B	173	25.908	79.893	86.103	1.00	78.33	C
ATOM	4249	O	TYR	B	173	26.773	79.439	85.358	1.00	79.20	O
ATOM	4250	CB	TYR	B	173	26.674	78.422	87.944	1.00	68.03	C
ATOM	4251	CG	TYR	B	173	26.424	77.709	89.252	1.00	71.50	C
ATOM	4252	CD1	TYR	B	173	25.960	78.405	90.367	1.00	73.51	C

ATOM	4253	CD2	TYR	B	173	26.663	76.345	89.380	1.00	72.27	C
ATOM	4254	CE1	TYR	B	173	25.740	77.763	91.586	1.00	70.46	C
ATOM	4255	CE2	TYR	B	173	26.450	75.687	90.593	1.00	70.67	C
ATOM	4256	CZ	TYR	B	173	25.985	76.404	91.695	1.00	66.70	C
ATOM	4257	OH	TYR	B	173	25.752	75.776	92.900	1.00	51.73	O
ATOM	4258	N	CYS	B	174	25.351	81.083	85.911	1.00	85.92	N
ATOM	4259	CA	CYS	B	174	25.755	81.959	84.810	1.00	97.17	C
ATOM	4260	C	CYS	B	174	25.051	83.306	84.934	1.00	106.31	C
ATOM	4261	O	CYS	B	174	23.869	83.370	85.273	1.00	100.13	O
ATOM	4262	CB	CYS	B	174	25.454	81.314	83.455	1.00	93.86	C
ATOM	4263	SG	CYS	B	174	23.775	80.749	83.264	1.00	93.51	S
ATOM	4264	N	ASP	B	175	25.797	84.378	84.668	1.00	116.19	N
ATOM	4265	CA	ASP	B	175	25.282	85.746	84.761	1.00	119.63	C
ATOM	4266	C	ASP	B	175	23.905	85.952	84.109	1.00	118.97	C
ATOM	4267	O	ASP	B	175	22.871	85.756	84.752	1.00	116.40	O
ATOM	4268	CB	ASP	B	175	26.291	86.742	84.157	1.00	119.42	C
ATOM	4269	CG	ASP	B	175	27.492	87.015	85.071	1.00	119.29	C
ATOM	4270	OD1	ASP	B	175	27.288	87.476	86.216	1.00	115.50	O
ATOM	4271	OD2	ASP	B	175	28.644	86.783	84.639	1.00	117.38	O
ATOM	4272	N	SER	B	176	23.888	86.352	82.839	1.00	119.54	N
ATOM	4273	CA	SER	B	176	22.627	86.585	82.138	1.00	115.27	C
ATOM	4274	C	SER	B	176	22.452	85.648	80.949	1.00	111.67	C
ATOM	4275	O	SER	B	176	23.407	84.986	80.530	1.00	109.69	O
ATOM	4276	CB	SER	B	176	22.560	88.028	81.652	1.00	117.63	C
ATOM	4277	OG	SER	B	176	23.527	88.260	80.644	1.00	114.24	O
ATOM	4278	N	LEU	B	177	21.234	85.593	80.404	1.00	108.85	N
ATOM	4279	CA	LEU	B	177	20.963	84.721	79.261	1.00	112.78	C
ATOM	4280	C	LEU	B	177	22.028	84.932	78.207	1.00	114.90	C
ATOM	4281	O	LEU	B	177	22.311	84.040	77.415	1.00	114.82	O
ATOM	4282	CB	LEU	B	177	19.586	84.996	78.653	1.00	110.84	C
ATOM	4283	CG	LEU	B	177	18.355	84.698	79.523	1.00	110.75	C
ATOM	4284	CD1	LEU	B	177	17.804	86.036	80.112	1.00	112.77	C
ATOM	4285	CD2	LEU	B	177	17.284	83.868	78.675	1.00	107.44	C
ATOM	4286	N	GLU	B	178	22.615	86.123	78.194	1.00	118.09	N
ATOM	4287	CA	GLU	B	178	23.688	86.406	77.253	1.00	125.35	C
ATOM	4288	C	GLU	B	178	24.656	85.232	77.393	1.00	119.59	C
ATOM	4289	O	GLU	B	178	24.777	84.407	76.489	1.00	121.69	O
ATOM	4290	CB	GLU	B	178	24.391	87.728	77.608	1.00	138.64	C
ATOM	4291	CG	GLU	B	178	23.571	88.994	77.331	1.00	149.49	C
ATOM	4292	CD	GLU	B	178	23.392	89.265	75.843	1.00	156.28	C
ATOM	4293	OE1	GLU	B	178	24.415	89.444	75.149	1.00	156.37	O
ATOM	4294	OE2	GLU	B	178	22.235	89.302	75.365	1.00	157.99	O
ATOM	4295	N	ASN	B	179	25.307	85.133	78.548	1.00	109.35	N
ATOM	4296	CA	ASN	B	179	26.246	84.044	78.782	1.00	97.15	C
ATOM	4297	C	ASN	B	179	25.603	82.693	78.512	1.00	92.68	C
ATOM	4298	O	ASN	B	179	26.241	81.798	77.950	1.00	93.11	O
ATOM	4299	CB	ASN	B	179	26.768	84.102	80.209	1.00	92.23	C
ATOM	4300	CG	ASN	B	179	27.451	85.412	80.512	1.00	91.53	C
ATOM	4301	OD1	ASN	B	179	28.014	86.049	79.625	1.00	82.19	O
ATOM	4302	ND2	ASN	B	179	27.423	85.816	81.770	1.00	96.60	N
ATOM	4303	N	LEU	B	180	24.334	82.556	78.890	1.00	83.99	N
ATOM	4304	CA	LEU	B	180	23.602	81.305	78.683	1.00	75.33	C
ATOM	4305	C	LEU	B	180	23.391	80.998	77.197	1.00	70.94	C
ATOM	4306	O	LEU	B	180	24.110	80.183	76.612	1.00	72.94	O
ATOM	4307	CB	LEU	B	180	22.243	81.359	79.401	1.00	72.39	C
ATOM	4308	CG	LEU	B	180	21.329	80.129	79.303	1.00	71.48	C
ATOM	4309	CD1	LEU	B	180	22.003	78.938	79.950	1.00	70.99	C
ATOM	4310	CD2	LEU	B	180	19.996	80.406	79.983	1.00	61.21	C
ATOM	4311	N	ALA	B	181	22.403	81.654	76.597	1.00	66.42	N
ATOM	4312	CA	ALA	B	181	22.092	81.447	75.192	1.00	69.48	C
ATOM	4313	C	ALA	B	181	23.353	81.213	74.369	1.00	72.08	C
ATOM	4314	O	ALA	B	181	23.451	80.217	73.650	1.00	69.52	O
ATOM	4315	CB	ALA	B	181	21.325	82.644	74.648	1.00	69.42	C
ATOM	4316	N	ASP	B	182	24.316	82.127	74.479	1.00	73.10	N
ATOM	4317	CA	ASP	B	182	25.567	82.008	73.729	1.00	74.22	C
ATOM	4318	C	ASP	B	182	26.276	80.696	74.026	1.00	71.67	C
ATOM	4319	O	ASP	B	182	26.692	79.986	73.102	1.00	71.12	O
ATOM	4320	CB	ASP	B	182	26.515	83.176	74.040	1.00	79.33	C
ATOM	4321	CG	ASP	B	182	26.210	84.422	73.213	1.00	87.03	C
ATOM	4322	OD1	ASP	B	182	26.068	84.300	71.976	1.00	89.64	O
ATOM	4323	OD2	ASP	B	182	26.128	85.526	73.797	1.00	92.53	O
ATOM	4324	N	GLY	B	183	26.415	80.387	75.316	1.00	65.63	N
ATOM	4325	CA	GLY	B	183	27.071	79.157	75.725	1.00	61.42	C
ATOM	4326	C	GLY	B	183	26.472	77.931	75.056	1.00	59.22	C
ATOM	4327	O	GLY	B	183	27.194	77.119	74.463	1.00	52.20	O
ATOM	4328	N	TYR	B	184	25.153	77.783	75.158	1.00	57.41	N
ATOM	4329	CA	TYR	B	184	24.482	76.652	74.534	1.00	54.34	C
ATOM	4330	C	TYR	B	184	24.820	76.682	73.058	1.00	57.82	C
ATOM	4331	O	TYR	B	184	25.421	75.735	72.542	1.00	61.15	O

ATOM	4332	CB	TYR	B	184	22.963	76.731	74.734	1.00	46.84	C
ATOM	4333	CG	TYR	B	184	22.474	75.982	75.960	1.00	44.73	C
ATOM	4334	CD1	TYR	B	184	22.541	74.592	76.023	1.00	45.99	C
ATOM	4335	CD2	TYR	B	184	21.988	76.664	77.070	1.00	30.79	C
ATOM	4336	CE1	TYR	B	184	22.139	73.900	77.159	1.00	41.68	C
ATOM	4337	CE2	TYR	B	184	21.590	75.986	78.211	1.00	29.12	C
ATOM	4338	CZ	TYR	B	184	21.668	74.601	78.255	1.00	39.41	C
ATOM	4339	OH	TYR	B	184	21.292	73.927	79.406	1.00	43.60	O
ATOM	4340	N	LYS	B	185	24.459	77.784	72.394	1.00	62.31	N
ATOM	4341	CA	LYS	B	185	24.720	77.954	70.961	1.00	71.54	C
ATOM	4342	C	LYS	B	185	26.173	77.639	70.625	1.00	71.35	C
ATOM	4343	O	LYS	B	185	26.464	76.800	69.761	1.00	73.96	O
ATOM	4344	CB	LYS	B	185	24.405	79.395	70.499	1.00	79.89	C
ATOM	4345	CG	LYS	B	185	22.923	79.793	70.468	1.00	90.86	C
ATOM	4346	CD	LYS	B	185	22.660	81.032	69.585	1.00	94.03	C
ATOM	4347	CE	LYS	B	185	23.359	82.293	70.095	1.00	97.96	C
ATOM	4348	NZ	LYS	B	185	23.053	83.504	69.271	1.00	98.03	N
ATOM	4349	N	HIS	B	186	27.077	78.322	71.321	1.00	67.93	N
ATOM	4350	CA	HIS	B	186	28.505	78.151	71.110	1.00	71.49	C
ATOM	4351	C	HIS	B	186	28.894	76.678	71.129	1.00	71.96	C
ATOM	4352	O	HIS	B	186	29.289	76.111	70.104	1.00	72.49	O
ATOM	4353	CB	HIS	B	186	29.279	78.910	72.182	1.00	72.20	C
ATOM	4354	CG	HIS	B	186	30.745	79.010	71.908	1.00	80.37	C
ATOM	4355	ND1	HIS	B	186	31.620	79.620	72.777	1.00	80.25	N
ATOM	4356	CD2	HIS	B	186	31.489	78.578	70.861	1.00	86.20	C
ATOM	4357	CE1	HIS	B	186	32.844	79.561	72.280	1.00	88.39	C
ATOM	4358	NE2	HIS	B	186	32.791	78.935	71.119	1.00	92.59	N
ATOM	4359	N	MET	B	187	28.775	76.067	72.302	1.00	67.47	N
ATOM	4360	CA	MET	B	187	29.100	74.656	72.475	1.00	63.47	C
ATOM	4361	C	MET	B	187	28.554	73.831	71.301	1.00	56.92	C
ATOM	4362	O	MET	B	187	29.277	73.045	70.680	1.00	54.64	O
ATOM	4363	CB	MET	B	187	28.515	74.164	73.811	1.00	60.48	C
ATOM	4364	CG	MET	B	187	28.709	72.679	74.112	1.00	69.23	C
ATOM	4365	SD	MET	B	187	30.432	72.124	74.165	1.00	77.92	S
ATOM	4366	CE	MET	B	187	30.791	72.276	75.893	1.00	66.33	C
ATOM	4367	N	SER	B	188	27.277	74.043	70.996	1.00	50.98	N
ATOM	4368	CA	SER	B	188	26.597	73.348	69.908	1.00	46.97	C
ATOM	4369	C	SER	B	188	27.472	73.286	68.668	1.00	45.49	C
ATOM	4370	O	SER	B	188	27.652	72.227	68.074	1.00	36.98	O
ATOM	4371	CB	SER	B	188	25.285	74.059	69.570	1.00	48.08	C
ATOM	4372	OG	SER	B	188	24.556	73.339	68.598	1.00	49.12	O
ATOM	4373	N	LEU	B	189	28.022	74.430	68.290	1.00	46.79	N
ATOM	4374	CA	LEU	B	189	28.887	74.523	67.117	1.00	53.44	C
ATOM	4375	C	LEU	B	189	30.231	73.831	67.360	1.00	50.11	C
ATOM	4376	O	LEU	B	189	30.780	73.173	66.466	1.00	48.93	O
ATOM	4377	CB	LEU	B	189	29.129	75.998	66.778	1.00	62.69	C
ATOM	4378	CG	LEU	B	189	27.896	76.898	66.612	1.00	69.48	C
ATOM	4379	CD1	LEU	B	189	28.327	78.363	66.690	1.00	69.15	C
ATOM	4380	CD2	LEU	B	189	27.186	76.588	65.283	1.00	71.03	C
ATOM	4381	N	ALA	B	190	30.755	74.001	68.574	1.00	43.50	N
ATOM	4382	CA	ALA	B	190	32.034	73.412	68.955	1.00	46.88	C
ATOM	4383	C	ALA	B	190	32.027	71.929	68.637	1.00	49.66	C
ATOM	4384	O	ALA	B	190	32.967	71.398	68.049	1.00	48.69	O
ATOM	4385	CB	ALA	B	190	32.285	73.630	70.440	1.00	45.92	C
ATOM	4386	N	LEU	B	191	30.941	71.271	69.016	1.00	57.32	N
ATOM	4387	CA	LEU	B	191	30.793	69.844	68.780	1.00	64.62	C
ATOM	4388	C	LEU	B	191	30.777	69.508	67.274	1.00	68.59	C
ATOM	4389	O	LEU	B	191	31.671	68.806	66.791	1.00	73.98	O
ATOM	4390	CB	LEU	B	191	29.521	69.347	69.493	1.00	63.93	C
ATOM	4391	CG	LEU	B	191	29.465	69.631	71.015	1.00	63.18	C
ATOM	4392	CD1	LEU	B	191	28.071	69.343	71.552	1.00	66.63	C
ATOM	4393	CD2	LEU	B	191	30.499	68.789	71.762	1.00	52.69	C
ATOM	4394	N	ASN	B	192	29.781	70.018	66.539	1.00	76.65	N
ATOM	4395	CA	ASN	B	192	29.656	69.781	65.086	1.00	86.95	C
ATOM	4396	C	ASN	B	192	31.027	69.895	64.449	1.00	88.71	C
ATOM	4397	O	ASN	B	192	31.365	69.184	63.497	1.00	91.35	O
ATOM	4398	CB	ASN	B	192	28.704	70.814	64.439	1.00	88.88	C
ATOM	4399	CG	ASN	B	192	28.620	70.686	62.906	1.00	83.62	C
ATOM	4400	OD1	ASN	B	192	29.534	71.101	62.191	1.00	70.80	O
ATOM	4401	ND2	ASN	B	192	27.509	70.116	62.432	1.00	82.55	N
ATOM	4402	N	ARG	B	193	31.812	70.808	65.003	1.00	86.76	N
ATOM	4403	CA	ARG	B	193	33.161	71.071	64.545	1.00	82.47	C
ATOM	4404	C	ARG	B	193	34.081	69.885	64.814	1.00	70.87	C
ATOM	4405	O	ARG	B	193	34.838	69.474	63.938	1.00	67.90	O
ATOM	4406	CB	ARG	B	193	33.701	72.307	65.253	1.00	88.33	C
ATOM	4407	CG	ARG	B	193	35.004	72.839	64.697	1.00	98.87	C
ATOM	4408	CD	ARG	B	193	35.354	74.104	65.433	1.00	112.98	C
ATOM	4409	NE	ARG	B	193	34.145	74.896	65.659	1.00	124.52	N
ATOM	4410	CZ	ARG	B	193	34.084	75.991	66.414	1.00	127.47	C

ATOM	4411	NH1	ARG	B	193	35.170	76.445	67.029	1.00125.63	N
ATOM	4412	NH2	ARG	B	193	32.929	76.630	66.562	1.00128.36	N
ATOM	4413	N	THR	B	194	34.010	69.331	66.018	1.00 60.49	N
ATOM	4414	CA	THR	B	194	34.860	68.201	66.373	1.00 56.47	C
ATOM	4415	C	THR	B	194	34.764	67.077	65.358	1.00 54.18	C
ATOM	4416	O	THR	B	194	35.707	66.300	65.205	1.00 56.94	O
ATOM	4417	CB	THR	B	194	34.489	67.602	67.738	1.00 62.64	O
ATOM	4418	OG1	THR	B	194	33.255	66.885	67.616	1.00 64.36	O
ATOM	4419	CG2	THR	B	194	34.347	68.698	68.788	1.00 67.77	C
ATOM	4420	N	GLY	B	195	33.626	66.973	64.679	1.00 54.96	N
ATOM	4421	CA	GLY	B	195	33.473	65.924	63.690	1.00 68.23	C
ATOM	4422	C	GLY	B	195	32.794	64.682	64.229	1.00 74.58	C
ATOM	4423	O	GLY	B	195	32.168	63.933	63.478	1.00 79.21	O
ATOM	4424	N	ARG	B	196	32.930	64.456	65.531	1.00 75.66	N
ATOM	4425	CA	ARG	B	196	32.313	63.305	66.187	1.00 77.42	C
ATOM	4426	C	ARG	B	196	30.795	63.529	66.182	1.00 72.79	C
ATOM	4427	O	ARG	B	196	30.333	64.637	66.449	1.00 67.36	O
ATOM	4428	CB	ARG	B	196	32.843	63.194	67.631	1.00 81.41	C
ATOM	4429	CG	ARG	B	196	32.333	62.005	68.456	1.00 87.93	C
ATOM	4430	CD	ARG	B	196	33.183	60.752	68.294	1.00 90.34	C
ATOM	4431	NE	ARG	B	196	32.592	59.628	69.015	1.00 94.58	N
ATOM	4432	CZ	ARG	B	196	32.916	58.353	68.824	1.00 98.29	C
ATOM	4433	NH1	ARG	B	196	33.839	58.017	67.929	1.00 97.63	N
ATOM	4434	NH2	ARG	B	196	32.296	57.408	69.518	1.00103.72	N
ATOM	4435	N	SER	B	197	30.026	62.494	65.851	1.00 71.16	N
ATOM	4436	CA	SER	B	197	28.568	62.600	65.839	1.00 69.64	C
ATOM	4437	C	SER	B	197	28.089	62.511	67.289	1.00 69.02	C
ATOM	4438	O	SER	B	197	28.034	61.414	67.856	1.00 71.10	O
ATOM	4439	CB	SER	B	197	27.959	61.456	65.028	1.00 69.96	C
ATOM	4440	OG	SER	B	197	28.501	61.421	63.725	1.00 71.61	O
ATOM	4441	N	ILE	B	198	27.743	63.658	67.882	1.00 65.88	N
ATOM	4442	CA	ILE	B	198	27.299	63.712	69.279	1.00 61.80	C
ATOM	4443	C	ILE	B	198	25.866	64.200	69.501	1.00 60.52	C
ATOM	4444	O	ILE	B	198	25.568	65.364	69.259	1.00 60.48	O
ATOM	4445	CB	ILE	B	198	28.200	64.660	70.122	1.00 60.81	C
ATOM	4446	CG1	ILE	B	198	29.678	64.420	69.815	1.00 65.48	C
ATOM	4447	CG2	ILE	B	198	27.946	64.427	71.614	1.00 56.41	C
ATOM	4448	CD1	ILE	B	198	30.607	65.443	70.448	1.00 65.33	C
ATOM	4449	N	VAL	B	199	24.979	63.330	69.973	1.00 57.43	N
ATOM	4450	CA	VAL	B	199	23.618	63.769	70.260	1.00 49.81	C
ATOM	4451	C	VAL	B	199	23.719	64.820	71.351	1.00 43.22	C
ATOM	4452	O	VAL	B	199	24.204	64.553	72.451	1.00 41.32	O
ATOM	4453	CB	VAL	B	199	22.740	62.631	70.772	1.00 52.26	C
ATOM	4454	CG1	VAL	B	199	21.425	63.197	71.298	1.00 52.72	C
ATOM	4455	CG2	VAL	B	199	22.493	61.636	69.648	1.00 55.82	C
ATOM	4456	N	TYR	B	200	23.257	66.018	71.036	1.00 35.72	N
ATOM	4457	CA	TYR	B	200	23.331	67.129	71.966	1.00 39.70	C
ATOM	4458	C	TYR	B	200	21.998	67.382	72.639	1.00 42.09	C
ATOM	4459	O	TYR	B	200	21.038	67.775	71.971	1.00 44.05	O
ATOM	4460	CB	TYR	B	200	23.788	68.359	71.193	1.00 45.19	C
ATOM	4461	CG	TYR	B	200	24.006	69.610	72.004	1.00 47.73	C
ATOM	4462	CD1	TYR	B	200	24.658	69.570	73.231	1.00 54.60	C
ATOM	4463	CD2	TYR	B	200	23.624	70.853	71.500	1.00 46.16	C
ATOM	4464	CE1	TYR	B	200	24.929	70.743	73.939	1.00 60.84	C
ATOM	4465	CE2	TYR	B	200	23.888	72.031	72.190	1.00 51.40	C
ATOM	4466	CZ	TYR	B	200	24.543	71.974	73.413	1.00 59.57	C
ATOM	4467	OH	TYR	B	200	24.808	73.144	74.102	1.00 58.13	O
ATOM	4468	N	SER	B	201	21.944	67.147	73.954	1.00 41.10	N
ATOM	4469	CA	SER	B	201	20.719	67.338	74.738	1.00 43.57	C
ATOM	4470	C	SER	B	201	20.781	68.543	75.670	1.00 41.63	C
ATOM	4471	O	SER	B	201	21.400	68.500	76.736	1.00 35.40	O
ATOM	4472	CB	SER	B	201	20.407	66.103	75.571	1.00 46.88	C
ATOM	4473	OG	SER	B	201	19.239	66.329	76.338	1.00 49.04	O
ATOM	4474	N	CYS	B	202	20.089	69.600	75.267	1.00 43.09	N
ATOM	4475	CA	CYS	B	202	20.062	70.849	76.002	1.00 40.52	C
ATOM	4476	C	CYS	B	202	19.030	70.884	77.115	1.00 40.12	C
ATOM	4477	O	CYS	B	202	18.131	70.045	77.175	1.00 45.63	O
ATOM	4478	CB	CYS	B	202	19.818	71.990	75.018	1.00 39.64	C
ATOM	4479	SG	CYS	B	202	20.914	71.849	73.565	1.00 56.69	S
ATOM	4480	N	GLU	B	203	19.194	71.865	78.001	1.00 32.53	N
ATOM	4481	CA	GLU	B	203	18.317	72.100	79.153	1.00 30.57	C
ATOM	4482	C	GLU	B	203	18.027	73.604	79.110	1.00 32.05	C
ATOM	4483	O	GLU	B	203	17.406	74.181	80.005	1.00 34.36	O
ATOM	4484	CB	GLU	B	203	19.068	71.724	80.431	1.00 30.69	C
ATOM	4485	CG	GLU	B	203	18.200	71.526	81.658	1.00 40.33	C
ATOM	4486	CD	GLU	B	203	18.939	70.820	82.789	1.00 44.25	C
ATOM	4487	OE1	GLU	B	203	19.292	69.630	82.637	1.00 42.33	O
ATOM	4488	OE2	GLU	B	203	19.182	71.469	83.827	1.00 46.40	O
ATOM	4489	N	TRP	B	204	18.498	74.207	78.021	1.00 34.86	N

ATOM	4490	CA	TRP	B	204	18.369	75.628	77.732	1.00	33.77	C
ATOM	4491	C	TRP	B	204	17.020	76.256	78.159	1.00	33.34	C
ATOM	4492	O	TRP	B	204	16.976	77.120	79.038	1.00	32.51	O
ATOM	4493	CB	TRP	B	204	18.597	75.810	76.229	1.00	36.11	C
ATOM	4494	CG	TRP	B	204	18.627	77.212	75.706	1.00	43.38	C
ATOM	4495	CD1	TRP	B	204	18.269	78.354	76.361	1.00	52.77	C
ATOM	4496	CD2	TRP	B	204	19.020	77.613	74.379	1.00	46.69	C
ATOM	4497	NE1	TRP	B	204	18.414	79.439	75.526	1.00	58.54	N
ATOM	4498	CE2	TRP	B	204	18.874	79.012	74.305	1.00	53.83	C
ATOM	4499	CE3	TRP	B	204	19.483	76.921	73.248	1.00	44.22	C
ATOM	4500	CZ2	TRP	B	204	19.177	79.737	73.144	1.00	57.36	C
ATOM	4501	CZ3	TRP	B	204	19.785	77.643	72.096	1.00	42.79	C
ATOM	4502	CH2	TRP	B	204	19.630	79.037	72.055	1.00	51.56	C
ATOM	4503	N	PRO	B	205	15.902	75.794	77.562	1.00	35.29	N
ATOM	4504	CA	PRO	B	205	14.556	76.303	77.851	1.00	24.59	C
ATOM	4505	C	PRO	B	205	14.260	76.396	79.332	1.00	20.83	C
ATOM	4506	O	PRO	B	205	13.889	77.461	79.825	1.00	28.83	O
ATOM	4507	CB	PRO	B	205	13.644	75.290	77.163	1.00	28.26	C
ATOM	4508	CG	PRO	B	205	14.485	74.736	76.070	1.00	39.15	C
ATOM	4509	CD	PRO	B	205	15.813	74.564	76.754	1.00	41.80	C
ATOM	4510	N	LEU	B	206	14.382	75.264	80.025	1.00	15.54	N
ATOM	4511	CA	LEU	B	206	14.127	75.196	81.457	1.00	24.00	C
ATOM	4512	C	LEU	B	206	14.743	76.400	82.164	1.00	26.77	C
ATOM	4513	O	LEU	B	206	14.303	76.779	83.250	1.00	19.16	O
ATOM	4514	CB	LEU	B	206	14.724	73.914	82.018	1.00	35.69	C
ATOM	4515	CG	LEU	B	206	14.832	73.841	83.539	1.00	49.18	C
ATOM	4516	CD1	LEU	B	206	13.444	73.764	84.157	1.00	60.58	C
ATOM	4517	CD2	LEU	B	206	15.662	72.632	83.925	1.00	59.26	C
ATOM	4518	N	TYR	B	207	15.770	76.977	81.531	1.00	38.18	N
ATOM	4519	CA	TYR	B	207	16.477	78.147	82.046	1.00	48.47	C
ATOM	4520	C	TYR	B	207	16.156	79.483	81.372	1.00	58.12	C
ATOM	4521	O	TYR	B	207	16.712	80.509	81.756	1.00	64.48	O
ATOM	4522	CB	TYR	B	207	17.981	77.917	81.985	1.00	50.26	C
ATOM	4523	CG	TYR	B	207	18.439	76.924	83.008	1.00	54.09	C
ATOM	4524	CD1	TYR	B	207	18.521	77.272	84.349	1.00	53.33	C
ATOM	4525	CD2	TYR	B	207	18.748	75.618	82.645	1.00	57.56	C
ATOM	4526	CE1	TYR	B	207	18.900	76.339	85.313	1.00	55.47	C
ATOM	4527	CE2	TYR	B	207	19.129	74.675	83.598	1.00	56.42	C
ATOM	4528	CZ	TYR	B	207	19.201	75.039	84.931	1.00	54.59	C
ATOM	4529	OH	TYR	B	207	19.553	74.099	85.877	1.00	54.11	O
ATOM	4530	N	MET	B	208	15.289	79.497	80.362	1.00	67.16	N
ATOM	4531	CA	MET	B	208	14.937	80.774	79.736	1.00	76.35	C
ATOM	4532	C	MET	B	208	13.915	81.470	80.644	1.00	81.72	C
ATOM	4533	O	MET	B	208	13.966	82.692	80.809	1.00	85.11	O
ATOM	4534	CB	MET	B	208	14.380	80.580	78.327	1.00	78.86	C
ATOM	4535	CG	MET	B	208	15.418	80.942	77.277	1.00	78.81	C
ATOM	4536	SD	MET	B	208	14.772	81.142	75.613	1.00	93.07	S
ATOM	4537	CE	MET	B	208	14.251	82.885	75.607	1.00	86.49	C
ATOM	4538	N	TRP	B	209	13.008	80.687	81.235	1.00	86.64	N
ATOM	4539	CA	TRP	B	209	12.029	81.188	82.189	1.00	96.02	C
ATOM	4540	C	TRP	B	209	12.995	81.443	83.364	1.00	101.19	C
ATOM	4541	O	TRP	B	209	13.911	80.672	83.551	1.00	99.10	O
ATOM	4542	CB	TRP	B	209	11.041	80.043	82.612	1.00	102.01	C
ATOM	4543	CG	TRP	B	209	10.043	79.627	81.557	1.00	107.53	C
ATOM	4544	CD1	TRP	B	209	9.016	80.384	81.049	1.00	109.21	C
ATOM	4545	CD2	TRP	B	209	10.005	78.368	80.855	1.00	107.49	C
ATOM	4546	NE1	TRP	B	209	8.345	79.663	80.072	1.00	107.06	N
ATOM	4547	CE2	TRP	B	209	8.938	78.433	79.929	1.00	105.86	C
ATOM	4548	CE3	TRP	B	209	10.773	77.197	80.918	1.00	104.86	C
ATOM	4549	CZ2	TRP	B	209	8.625	77.374	79.067	1.00	100.39	C
ATOM	4550	CZ3	TRP	B	209	10.456	76.143	80.063	1.00	101.89	C
ATOM	4551	CH2	TRP	B	209	9.390	76.245	79.147	1.00	99.66	C
ATOM	4552	N	PRO	B	210	12.826	82.510	84.153	1.00	106.91	N
ATOM	4553	CA	PRO	B	210	11.842	83.586	84.165	1.00	114.58	C
ATOM	4554	C	PRO	B	210	12.358	84.827	83.452	1.00	119.07	C
ATOM	4555	O	PRO	B	210	12.703	85.820	84.096	1.00	120.59	O
ATOM	4556	CB	PRO	B	210	11.676	83.859	85.634	1.00	112.27	C
ATOM	4557	CG	PRO	B	210	13.093	83.768	86.118	1.00	111.13	C
ATOM	4558	CD	PRO	B	210	13.587	82.522	85.420	1.00	107.22	C
ATOM	4559	N	PHE	B	211	12.402	84.766	82.132	1.00	123.20	N
ATOM	4560	CA	PHE	B	211	12.904	85.877	81.361	1.00	125.20	C
ATOM	4561	C	PHE	B	211	12.062	86.099	80.138	1.00	121.76	C
ATOM	4562	O	PHE	B	211	11.730	87.225	79.797	1.00	125.34	O
ATOM	4563	CB	PHE	B	211	14.348	85.590	80.957	1.00	132.80	C
ATOM	4564	CG	PHE	B	211	15.322	85.679	82.093	1.00	141.06	C
ATOM	4565	CD1	PHE	B	211	15.621	86.909	82.673	1.00	143.96	C
ATOM	4566	CD2	PHE	B	211	15.957	84.541	82.570	1.00	143.20	C
ATOM	4567	CE1	PHE	B	211	16.535	86.999	83.709	1.00	147.62	C
ATOM	4568	CE2	PHE	B	211	16.872	84.622	83.605	1.00	144.40	C

ATOM	4569	CZ	PHE	B	211	17.165	85.849	84.175	1.00147.42	C
ATOM	4570	N	GLN	B	212	11.714	85.004	79.475	1.00117.65	N
ATOM	4571	CA	GLN	B	212	10.895	85.060	78.262	1.00116.10	C
ATOM	4572	C	GLN	B	212	10.741	83.683	77.630	1.00113.23	C
ATOM	4573	O	GLN	B	212	11.690	82.898	77.603	1.00113.03	O
ATOM	4574	CB	GLN	B	212	11.539	86.026	77.266	1.00122.76	C
ATOM	4575	CG	GLN	B	212	13.060	86.006	77.235	1.00126.97	C
ATOM	4576	CD	GLN	B	212	13.638	87.096	76.347	1.00128.58	C
ATOM	4577	OE1	GLN	B	212	13.426	88.274	76.596	1.00128.76	O
ATOM	4578	NE2	GLN	B	212	14.351	86.704	75.293	1.00129.44	N
ATOM	4579	N	LYS	B	213	9.541	83.407	77.135	1.00111.73	N
ATOM	4580	CA	LYS	B	213	9.236	82.153	76.480	1.00112.52	C
ATOM	4581	C	LYS	B	213	10.253	81.991	75.330	1.00107.11	C
ATOM	4582	O	LYS	B	213	10.422	82.887	74.515	1.00108.90	O
ATOM	4583	CB	LYS	B	213	7.788	82.200	75.936	1.00116.60	C
ATOM	4584	CG	LYS	B	213	6.727	82.629	76.979	1.00118.58	C
ATOM	4585	CD	LYS	B	213	6.523	84.151	77.061	1.00115.90	C
ATOM	4586	CE	LYS	B	213	5.279	84.512	77.879	1.00111.08	C
ATOM	4587	NZ	LYS	B	213	5.070	85.985	78.035	1.00 99.14	N
ATOM	4588	N	PRO	B	214	10.960	80.848	75.278	1.00 99.46	N
ATOM	4589	CA	PRO	B	214	11.981	80.491	74.269	1.00 94.71	C
ATOM	4590	C	PRO	B	214	11.711	80.423	72.754	1.00 90.00	C
ATOM	4591	O	PRO	B	214	10.697	79.892	72.317	1.00 92.92	O
ATOM	4592	CB	PRO	B	214	12.542	79.159	74.803	1.00 96.49	C
ATOM	4593	CG	PRO	B	214	11.514	78.672	75.811	1.00 90.86	C
ATOM	4594	CD	PRO	B	214	10.996	79.920	76.431	1.00 92.17	C
ATOM	4595	N	ASN	B	215	12.633	80.976	71.961	1.00 82.14	N
ATOM	4596	CA	ASN	B	215	12.498	80.901	70.510	1.00 73.32	C
ATOM	4597	C	ASN	B	215	12.897	79.450	70.336	1.00 62.81	C
ATOM	4598	O	ASN	B	215	14.078	79.119	70.282	1.00 53.18	O
ATOM	4599	CB	ASN	B	215	13.502	81.826	69.779	1.00 86.68	C
ATOM	4600	CG	ASN	B	215	13.275	81.883	68.254	1.00 96.59	C
ATOM	4601	OD1	ASN	B	215	12.632	80.996	67.692	1.00 97.37	O
ATOM	4602	ND2	ASN	B	215	13.796	82.925	67.596	1.00105.86	N
ATOM	4603	N	TYR	B	216	11.894	78.580	70.342	1.00 56.91	N
ATOM	4604	CA	TYR	B	216	12.095	77.143	70.169	1.00 57.71	C
ATOM	4605	C	TYR	B	216	12.577	76.824	68.756	1.00 58.93	C
ATOM	4606	O	TYR	B	216	13.278	75.834	68.532	1.00 66.37	O
ATOM	4607	CB	TYR	B	216	10.786	76.387	70.436	1.00 54.68	C
ATOM	4608	CG	TYR	B	216	10.478	76.145	71.908	1.00 47.31	C
ATOM	4609	CD1	TYR	B	216	11.306	75.331	72.695	1.00 48.30	C
ATOM	4610	CD2	TYR	B	216	9.350	76.709	72.511	1.00 45.03	C
ATOM	4611	CE1	TYR	B	216	11.017	75.082	74.040	1.00 38.66	C
ATOM	4612	CE2	TYR	B	216	9.054	76.466	73.860	1.00 39.11	C
ATOM	4613	CZ	TYR	B	216	9.893	75.650	74.615	1.00 36.71	C
ATOM	4614	OH	TYR	B	216	9.606	75.397	75.945	1.00 39.39	O
ATOM	4615	N	THR	B	217	12.194	77.650	67.791	1.00 58.65	N
ATOM	4616	CA	THR	B	217	12.629	77.407	66.425	1.00 64.38	C
ATOM	4617	C	THR	B	217	14.141	77.577	66.435	1.00 63.38	C
ATOM	4618	O	THR	B	217	14.868	76.880	65.723	1.00 70.77	O
ATOM	4619	CB	THR	B	217	11.998	78.419	65.456	1.00 72.29	C
ATOM	4620	OG1	THR	B	217	10.586	78.492	65.704	1.00 71.64	O
ATOM	4621	CG2	THR	B	217	12.225	77.985	64.015	1.00 78.78	C
ATOM	4622	N	GLU	B	218	14.595	78.516	67.259	1.00 60.24	N
ATOM	4623	CA	GLU	B	218	16.009	78.808	67.407	1.00 59.38	C
ATOM	4624	C	GLU	B	218	16.657	77.568	67.994	1.00 53.71	C
ATOM	4625	O	GLU	B	218	17.401	76.857	67.320	1.00 46.21	O
ATOM	4626	CB	GLU	B	218	16.163	79.999	68.345	1.00 62.05	C
ATOM	4627	CG	GLU	B	218	17.578	80.397	68.675	1.00 71.15	C
ATOM	4628	CD	GLU	B	218	17.702	81.896	68.856	1.00 77.94	C
ATOM	4629	OE1	GLU	B	218	17.520	82.623	67.851	1.00 79.20	O
ATOM	4630	OE2	GLU	B	218	17.967	82.349	69.993	1.00 76.55	O
ATOM	4631	N	ILE	B	219	16.342	77.320	69.259	1.00 49.61	N
ATOM	4632	CA	ILE	B	219	16.840	76.171	70.011	1.00 41.53	C
ATOM	4633	C	ILE	B	219	16.924	74.897	69.185	1.00 34.04	C
ATOM	4634	O	ILE	B	219	17.939	74.208	69.199	1.00 38.58	O
ATOM	4635	CB	ILE	B	219	15.922	75.870	71.204	1.00 40.80	C
ATOM	4636	CG1	ILE	B	219	15.813	77.115	72.089	1.00 48.95	C
ATOM	4637	CG2	ILE	B	219	16.433	74.653	71.967	1.00 35.42	C
ATOM	4638	CD1	ILE	B	219	15.161	76.865	73.432	1.00 53.55	C
ATOM	4639	N	ARG	B	220	15.832	74.582	68.492	1.00 25.48	N
ATOM	4640	CA	ARG	B	220	15.742	73.393	67.662	1.00 31.02	C
ATOM	4641	C	ARG	B	220	16.849	73.364	66.627	1.00 38.66	C
ATOM	4642	O	ARG	B	220	17.166	72.310	66.083	1.00 43.62	O
ATOM	4643	CB	ARG	B	220	14.380	73.329	66.964	1.00 38.15	C
ATOM	4644	CG	ARG	B	220	14.388	72.450	65.737	1.00 54.45	C
ATOM	4645	CD	ARG	B	220	13.016	71.956	65.382	1.00 70.29	C
ATOM	4646	NE	ARG	B	220	13.095	70.576	64.916	1.00 91.96	N
ATOM	4647	CZ	ARG	B	220	12.040	69.823	64.626	1.00 98.73	C



ATOM	4648	NH1	ARG	B	220	10.817	70.322	64.753	1.00100.04	N
ATOM	4649	NH2	ARG	B	220	12.206	68.570	64.218	1.00102.81	N
ATOM	4650	N	GLN	B	221	17.428	74.524	66.340	1.00 47.73	N
ATOM	4651	CA	GLN	B	221	18.513	74.597	65.368	1.00 59.37	C
ATOM	4652	C	GLN	B	221	19.827	74.423	66.097	1.00 58.36	C
ATOM	4653	O	GLN	B	221	20.897	74.725	65.565	1.00 63.76	O
ATOM	4654	CB	GLN	B	221	18.542	75.951	64.681	1.00 68.87	C
ATOM	4655	CG	GLN	B	221	17.296	76.321	63.945	1.00 83.58	C
ATOM	4656	CD	GLN	B	221	17.505	77.570	63.134	1.00 91.32	C
ATOM	4657	OE1	GLN	B	221	17.891	78.617	63.665	1.00 94.94	O
ATOM	4658	NE2	GLN	B	221	17.261	77.471	61.836	1.00 91.81	N
ATOM	4659	N	TYR	B	222	19.741	73.938	67.325	1.00 52.75	N
ATOM	4660	CA	TYR	B	222	20.930	73.751	68.141	1.00 49.86	C
ATOM	4661	C	TYR	B	222	20.885	72.521	69.047	1.00 51.82	C
ATOM	4662	O	TYR	B	222	21.879	72.193	69.693	1.00 56.44	O
ATOM	4663	CB	TYR	B	222	21.149	74.991	69.008	1.00 52.48	C
ATOM	4664	CG	TYR	B	222	21.678	76.187	68.266	1.00 62.64	C
ATOM	4665	CD1	TYR	B	222	22.894	76.126	67.596	1.00 67.88	C
ATOM	4666	CD2	TYR	B	222	20.988	77.393	68.275	1.00 63.36	C
ATOM	4667	CE1	TYR	B	222	23.415	77.230	66.960	1.00 68.70	C
ATOM	4668	CE2	TYR	B	222	21.499	78.509	67.642	1.00 66.58	C
ATOM	4669	CZ	TYR	B	222	22.717	78.418	66.988	1.00 65.02	C
ATOM	4670	OH	TYR	B	222	23.259	79.516	66.372	1.00 63.49	O
ATOM	4671	N	CYS	B	223	19.746	71.837	69.100	1.00 50.96	N
ATOM	4672	CA	CYS	B	223	19.640	70.683	69.973	1.00 48.83	C
ATOM	4673	C	CYS	B	223	18.857	69.531	69.418	1.00 49.05	C
ATOM	4674	O	CYS	B	223	17.946	69.709	68.616	1.00 52.90	O
ATOM	4675	CB	CYS	B	223	19.011	71.113	71.279	1.00 51.12	C
ATOM	4676	SG	CYS	B	223	19.851	72.564	71.979	1.00 53.29	S
ATOM	4677	N	ASN	B	224	19.214	68.338	69.866	1.00 45.96	N
ATOM	4678	CA	ASN	B	224	18.523	67.137	69.433	1.00 44.72	C
ATOM	4679	C	ASN	B	224	17.286	66.968	70.324	1.00 37.77	C
ATOM	4680	O	ASN	B	224	16.319	66.280	69.974	1.00 39.98	O
ATOM	4681	CB	ASN	B	224	19.478	65.956	69.528	1.00 51.18	C
ATOM	4682	CG	ASN	B	224	20.587	66.052	68.520	1.00 58.33	C
ATOM	4683	OD1	ASN	B	224	21.754	65.840	68.836	1.00 65.65	O
ATOM	4684	ND2	ASN	B	224	20.226	66.373	67.286	1.00 56.79	N
ATOM	4685	N	HIS	B	225	17.343	67.609	71.485	1.00 31.45	N
ATOM	4686	CA	HIS	B	225	16.245	67.631	72.427	1.00 33.69	C
ATOM	4687	C	HIS	B	225	16.642	68.400	73.660	1.00 32.39	C
ATOM	4688	O	HIS	B	225	17.776	68.344	74.121	1.00 30.58	O
ATOM	4689	CB	HIS	B	225	15.721	66.235	72.763	1.00 36.06	C
ATOM	4690	CG	HIS	B	225	16.774	65.182	72.887	1.00 34.13	C
ATOM	4691	ND1	HIS	B	225	17.674	65.148	73.929	1.00 29.91	N
ATOM	4692	CD2	HIS	B	225	17.014	64.075	72.141	1.00 33.57	C
ATOM	4693	CE1	HIS	B	225	18.419	64.061	73.823	1.00 27.98	C
ATOM	4694	NE2	HIS	B	225	18.039	63.393	72.749	1.00 27.97	N
ATOM	4695	N	TRP	B	226	15.667	69.126	74.179	1.00 32.53	N
ATOM	4696	CA	TRP	B	226	15.839	70.025	75.307	1.00 33.97	C
ATOM	4697	C	TRP	B	226	14.852	69.787	76.464	1.00 38.96	C
ATOM	4698	O	TRP	B	226	13.775	69.221	76.275	1.00 47.80	O
ATOM	4699	CB	TRP	B	226	15.653	71.435	74.754	1.00 30.08	C
ATOM	4700	CG	TRP	B	226	14.415	71.478	73.872	1.00 32.05	C
ATOM	4701	CD1	TRP	B	226	13.112	71.579	74.293	1.00 32.11	C
ATOM	4702	CD2	TRP	B	226	14.354	71.268	72.451	1.00 31.67	C
ATOM	4703	NE1	TRP	B	226	12.251	71.438	73.226	1.00 23.57	N
ATOM	4704	CE2	TRP	B	226	12.983	71.244	72.087	1.00 28.32	C
ATOM	4705	CE3	TRP	B	226	15.322	71.090	71.450	1.00 39.08	C
ATOM	4706	CZ2	TRP	B	226	12.557	71.053	70.768	1.00 33.66	C
ATOM	4707	CZ3	TRP	B	226	14.894	70.896	70.125	1.00 50.47	C
ATOM	4708	CH2	TRP	B	226	13.521	70.879	69.803	1.00 47.28	C
ATOM	4709	N	ARG	B	227	15.229	70.239	77.658	1.00 31.64	N
ATOM	4710	CA	ARG	B	227	14.389	70.117	78.849	1.00 35.03	C
ATOM	4711	C	ARG	B	227	13.435	71.312	78.913	1.00 39.53	C
ATOM	4712	O	ARG	B	227	13.776	72.405	78.461	1.00 40.49	O
ATOM	4713	CB	ARG	B	227	15.259	70.096	80.106	1.00 35.87	C
ATOM	4714	CG	ARG	B	227	15.897	68.764	80.394	1.00 35.40	C
ATOM	4715	CD	ARG	B	227	14.850	67.753	80.848	1.00 38.85	C
ATOM	4716	NE	ARG	B	227	14.285	68.071	82.155	1.00 27.21	N
ATOM	4717	CZ	ARG	B	227	14.982	68.090	83.284	1.00 24.17	C
ATOM	4718	NH1	ARG	B	227	16.274	67.809	83.276	1.00 23.16	N
ATOM	4719	NH2	ARG	B	227	14.384	68.385	84.423	1.00 21.24	N
ATOM	4720	N	ASN	B	228	12.243	71.107	79.470	1.00 39.75	N
ATOM	4721	CA	ASN	B	228	11.268	72.189	79.579	1.00 37.24	C
ATOM	4722	C	ASN	B	228	10.850	72.435	81.025	1.00 43.45	C
ATOM	4723	O	ASN	B	228	10.843	73.587	81.472	1.00 51.94	O
ATOM	4724	CB	ASN	B	228	10.008	71.900	78.745	1.00 40.38	C
ATOM	4725	CG	ASN	B	228	10.285	71.836	77.249	1.00 53.86	C
ATOM	4726	OD1	ASN	B	228	10.999	72.675	76.697	1.00 55.95	O



ATOM	4727	ND2	ASN	B	228	9.704	70.839	76.582	1.00	65.88	N
ATOM	4728	N	PHE	B	229	10.509	71.359	81.751	1.00	49.79	N
ATOM	4729	CA	PHE	B	229	10.057	71.446	83.155	1.00	47.88	C
ATOM	4730	C	PHE	B	229	11.022	70.869	84.201	1.00	44.13	C
ATOM	4731	O	PHE	B	229	11.804	69.960	83.911	1.00	45.53	O
ATOM	4732	CB	PHE	B	229	8.696	70.755	83.318	1.00	51.04	C
ATOM	4733	CG	PHE	B	229	8.043	71.005	84.648	1.00	68.22	C
ATOM	4734	CD1	PHE	B	229	7.596	72.281	84.986	1.00	77.87	C
ATOM	4735	CD2	PHE	B	229	7.889	69.974	85.572	1.00	79.81	C
ATOM	4736	CE1	PHE	B	229	7.005	72.528	86.224	1.00	86.97	C
ATOM	4737	CE2	PHE	B	229	7.296	70.210	86.819	1.00	86.80	C
ATOM	4738	CZ	PHE	B	229	6.856	71.486	87.143	1.00	90.80	C
ATOM	4739	N	ALA	B	230	10.930	71.403	85.422	1.00	42.28	N
ATOM	4740	CA	ALA	B	230	11.769	71.006	86.564	1.00	47.28	C
ATOM	4741	C	ALA	B	230	12.075	69.521	86.634	1.00	50.55	C
ATOM	4742	O	ALA	B	230	11.433	68.708	85.963	1.00	57.81	O
ATOM	4743	CB	ALA	B	230	11.120	71.448	87.869	1.00	46.60	C
ATOM	4744	N	ASP	B	231	13.053	69.164	87.461	1.00	46.30	N
ATOM	4745	CA	ASP	B	231	13.424	67.762	87.602	1.00	47.24	C
ATOM	4746	C	ASP	B	231	12.220	66.911	87.964	1.00	44.91	C
ATOM	4747	O	ASP	B	231	11.121	67.419	88.208	1.00	46.32	O
ATOM	4748	CB	ASP	B	231	14.501	67.605	88.664	1.00	56.16	C
ATOM	4749	CG	ASP	B	231	15.725	68.403	88.334	1.00	61.99	C
ATOM	4750	OD1	ASP	B	231	16.186	68.271	87.185	1.00	64.34	O
ATOM	4751	OD2	ASP	B	231	16.221	69.159	89.195	1.00	73.15	O
ATOM	4752	N	ILE	B	232	12.436	65.606	88.006	1.00	36.13	N
ATOM	4753	CA	ILE	B	232	11.354	64.693	88.314	1.00	27.43	C
ATOM	4754	C	ILE	B	232	11.698	63.756	89.482	1.00	27.62	C
ATOM	4755	O	ILE	B	232	12.726	63.073	89.471	1.00	26.64	O
ATOM	4756	CB	ILE	B	232	10.969	63.897	87.022	1.00	25.17	C
ATOM	4757	CG1	ILE	B	232	9.834	62.915	87.311	1.00	17.61	C
ATOM	4758	CG2	ILE	B	232	12.195	63.188	86.475	1.00	37.00	C
ATOM	4759	CD1	ILE	B	232	9.209	62.355	86.047	1.00	34.79	C
ATOM	4760	N	ASP	B	233	10.830	63.768	90.495	1.00	33.04	N
ATOM	4761	CA	ASP	B	233	10.977	62.935	91.687	1.00	34.79	C
ATOM	4762	C	ASP	B	233	10.447	61.553	91.370	1.00	30.20	C
ATOM	4763	O	ASP	B	233	9.785	61.362	90.351	1.00	28.34	O
ATOM	4764	CB	ASP	B	233	10.136	63.467	92.850	1.00	50.15	C
ATOM	4765	CG	ASP	B	233	10.531	64.860	93.286	1.00	67.23	C
ATOM	4766	OD1	ASP	B	233	11.660	65.043	93.798	1.00	73.80	O
ATOM	4767	OD2	ASP	B	233	9.697	65.777	93.116	1.00	75.06	O
ATOM	4768	N	ASP	B	234	10.733	60.587	92.238	1.00	28.34	N
ATOM	4769	CA	ASP	B	234	10.209	59.244	92.032	1.00	26.19	C
ATOM	4770	C	ASP	B	234	8.867	59.339	92.747	1.00	24.68	C
ATOM	4771	O	ASP	B	234	8.659	58.735	93.803	1.00	20.48	O
ATOM	4772	CB	ASP	B	234	11.113	58.198	92.688	1.00	25.05	C
ATOM	4773	CG	ASP	B	234	10.676	56.787	92.372	1.00	27.09	C
ATOM	4774	OD1	ASP	B	234	9.949	56.597	91.363	1.00	31.30	O
ATOM	4775	OD2	ASP	B	234	11.062	55.871	93.127	1.00	21.84	O
ATOM	4776	N	SER	B	235	7.970	60.131	92.160	1.00	25.37	N
ATOM	4777	CA	SER	B	235	6.661	60.390	92.743	1.00	26.92	C
ATOM	4778	C	SER	B	235	5.562	60.595	91.718	1.00	28.46	C
ATOM	4779	O	SER	B	235	5.818	61.008	90.589	1.00	32.06	O
ATOM	4780	CB	SER	B	235	6.752	61.654	93.595	1.00	29.39	C
ATOM	4781	OG	SER	B	235	7.218	62.732	92.785	1.00	23.53	O
ATOM	4782	N	TRP	B	236	4.329	60.339	92.137	1.00	22.81	N
ATOM	4783	CA	TRP	B	236	3.177	60.532	91.265	1.00	24.83	C
ATOM	4784	C	TRP	B	236	2.977	62.036	91.038	1.00	28.40	C
ATOM	4785	O	TRP	B	236	2.758	62.487	89.909	1.00	31.87	O
ATOM	4786	CB	TRP	B	236	1.933	59.917	91.911	1.00	33.78	C
ATOM	4787	CG	TRP	B	236	0.644	60.043	91.126	1.00	33.53	C
ATOM	4788	CD1	TRP	B	236	-0.602	60.219	91.645	1.00	34.90	C
ATOM	4789	CD2	TRP	B	236	0.473	59.964	89.701	1.00	28.06	C
ATOM	4790	NE1	TRP	B	236	-1.540	60.256	90.640	1.00	22.72	N
ATOM	4791	CE2	TRP	B	236	-0.910	60.101	89.436	1.00	24.75	C
ATOM	4792	CE3	TRP	B	236	1.350	59.791	88.623	1.00	36.82	C
ATOM	4793	CZ2	TRP	B	236	-1.441	60.070	88.142	1.00	24.24	C
ATOM	4794	CZ3	TRP	B	236	0.824	59.760	87.329	1.00	38.70	C
ATOM	4795	CH2	TRP	B	236	-0.565	59.900	87.104	1.00	28.28	C
ATOM	4796	N	LYS	B	237	3.080	62.805	92.116	1.00	30.75	N
ATOM	4797	CA	LYS	B	237	2.923	64.252	92.053	1.00	35.49	C
ATOM	4798	C	LYS	B	237	3.789	64.840	90.948	1.00	36.92	C
ATOM	4799	O	LYS	B	237	3.280	65.428	89.989	1.00	39.03	O
ATOM	4800	CB	LYS	B	237	3.320	64.871	93.388	1.00	43.96	C
ATOM	4801	CG	LYS	B	237	3.204	66.381	93.443	1.00	58.69	C
ATOM	4802	CD	LYS	B	237	3.590	66.884	94.820	1.00	76.84	C
ATOM	4803	CE	LYS	B	237	3.428	68.388	94.940	1.00	86.11	C
ATOM	4804	NZ	LYS	B	237	3.684	68.844	96.338	1.00	87.61	N
ATOM	4805	N	SER	B	238	5.100	64.667	91.091	1.00	38.16	N

ATOM	4806	CA	SER B 238	6.061	65.178	90.121	1.00	40.77	C
ATOM	4807	C	SER B 238	5.616	64.875	88.690	1.00	37.84	C
ATOM	4808	O	SER B 238	5.765	65.703	87.781	1.00	44.27	O
ATOM	4809	CB	SER B 238	7.437	64.566	90.376	1.00	37.16	C
ATOM	4810	OG	SER B 238	8.409	65.123	89.508	1.00	54.89	O
ATOM	4811	N	ILE B 239	5.049	63.694	88.483	1.00	27.75	N
ATOM	4812	CA	ILE B 239	4.592	63.343	87.150	1.00	28.70	C
ATOM	4813	C	ILE B 239	3.340	64.110	86.775	1.00	26.04	C
ATOM	4814	O	ILE B 239	3.253	64.682	85.684	1.00	17.63	O
ATOM	4815	CB	ILE B 239	4.349	61.829	87.021	1.00	22.63	C
ATOM	4816	CG1	ILE B 239	5.690	61.148	86.726	1.00	25.11	C
ATOM	4817	CG2	ILE B 239	3.303	61.545	85.948	1.00	11.50	C
ATOM	4818	CD1	ILE B 239	5.586	59.747	86.171	1.00	25.16	C
ATOM	4819	N	LYS B 240	2.376	64.134	87.684	1.00	31.73	N
ATOM	4820	CA	LYS B 240	1.145	64.849	87.425	1.00	41.99	C
ATOM	4821	C	LYS B 240	1.461	66.274	86.976	1.00	43.08	C
ATOM	4822	O	LYS B 240	1.015	66.704	85.908	1.00	44.26	O
ATOM	4823	CB	LYS B 240	0.289	64.859	88.683	1.00	47.78	C
ATOM	4824	CG	LYS B 240	-0.052	63.468	89.175	1.00	53.75	C
ATOM	4825	CD	LYS B 240	-0.659	63.497	90.570	1.00	53.18	C
ATOM	4826	CE	LYS B 240	-1.933	64.328	90.600	1.00	59.78	C
ATOM	4827	NZ	LYS B 240	-2.566	64.347	91.950	1.00	55.99	N
ATOM	4828	N	SER B 241	2.252	66.996	87.769	1.00	43.28	N
ATOM	4829	CA	SER B 241	2.601	68.374	87.428	1.00	46.91	C
ATOM	4830	C	SER B 241	3.186	68.483	86.026	1.00	43.14	C
ATOM	4831	O	SER B 241	2.803	69.375	85.274	1.00	49.64	O
ATOM	4832	CB	SER B 241	3.578	68.960	88.445	1.00	48.56	C
ATOM	4833	OG	SER B 241	4.779	68.217	88.500	1.00	59.61	O
ATOM	4834	N	ILE B 242	4.099	67.583	85.665	1.00	37.40	N
ATOM	4835	CA	ILE B 242	4.690	67.616	84.323	1.00	31.79	C
ATOM	4836	C	ILE B 242	3.611	67.464	83.253	1.00	31.03	C
ATOM	4837	O	ILE B 242	3.588	68.217	82.268	1.00	25.40	O
ATOM	4838	CB	ILE B 242	5.773	66.514	84.142	1.00	32.20	C
ATOM	4839	CG1	ILE B 242	7.107	67.024	84.694	1.00	39.49	C
ATOM	4840	CG2	ILE B 242	5.928	66.132	82.674	1.00	21.06	C
ATOM	4841	CD1	ILE B 242	8.265	66.077	84.492	1.00	41.24	C
ATOM	4842	N	LEU B 243	2.714	66.499	83.431	1.00	28.87	N
ATOM	4843	CA	LEU B 243	1.648	66.344	82.450	1.00	26.17	C
ATOM	4844	C	LEU B 243	0.873	67.651	82.388	1.00	23.84	C
ATOM	4845	O	LEU B 243	0.876	68.329	81.356	1.00	7.14	O
ATOM	4846	CB	LEU B 243	0.714	65.202	82.827	1.00	26.24	C
ATOM	4847	CG	LEU B 243	1.200	63.829	82.375	1.00	21.83	C
ATOM	4848	CD1	LEU B 243	0.218	62.810	82.822	1.00	22.96	C
ATOM	4849	CD2	LEU B 243	1.325	63.778	80.866	1.00	28.88	C
ATOM	4850	N	ASP B 244	0.236	68.014	83.500	1.00	20.78	N
ATOM	4851	CA	ASP B 244	-0.542	69.248	83.558	1.00	28.25	C
ATOM	4852	C	ASP B 244	0.214	70.423	82.951	1.00	32.60	C
ATOM	4853	O	ASP B 244	-0.324	71.147	82.105	1.00	37.00	O
ATOM	4854	CB	ASP B 244	-0.942	69.550	85.001	1.00	31.66	C
ATOM	4855	CG	ASP B 244	-1.716	68.410	85.626	1.00	33.89	C
ATOM	4856	OD1	ASP B 244	-2.683	67.938	84.993	1.00	35.75	O
ATOM	4857	OD2	ASP B 244	-1.367	67.978	86.743	1.00	41.32	O
ATOM	4858	N	TRP B 245	1.462	70.603	83.372	1.00	38.51	N
ATOM	4859	CA	TRP B 245	2.288	71.679	82.845	1.00	46.62	C
ATOM	4860	C	TRP B 245	2.372	71.533	81.321	1.00	46.46	C
ATOM	4861	O	TRP B 245	2.039	72.465	80.582	1.00	49.26	O
ATOM	4862	CB	TRP B 245	3.700	71.636	83.443	1.00	61.17	C
ATOM	4863	CG	TRP B 245	4.533	72.799	83.004	1.00	88.13	C
ATOM	4864	CD1	TRP B 245	4.596	74.028	83.594	1.00	96.89	C
ATOM	4865	CD2	TRP B 245	5.329	72.883	81.813	1.00	99.28	C
ATOM	4866	NE1	TRP B 245	5.377	74.877	82.839	1.00	106.39	N
ATOM	4867	CE2	TRP B 245	5.839	74.198	81.741	1.00	105.58	C
ATOM	4868	CE3	TRP B 245	5.657	71.976	80.797	1.00	102.70	C
ATOM	4869	CZ2	TRP B 245	6.660	74.628	80.691	1.00	110.26	C
ATOM	4870	CZ3	TRP B 245	6.473	72.403	79.753	1.00	103.34	C
ATOM	4871	CH2	TRP B 245	6.964	73.718	79.709	1.00	110.36	C
ATOM	4872	N	THR B 246	2.812	70.371	80.844	1.00	47.19	N
ATOM	4873	CA	THR B 246	2.915	70.160	79.404	1.00	48.24	C
ATOM	4874	C	THR B 246	1.544	70.300	78.758	1.00	51.43	C
ATOM	4875	O	THR B 246	1.403	70.935	77.707	1.00	53.04	O
ATOM	4876	CB	THR B 246	3.530	68.766	79.078	1.00	45.41	C
ATOM	4877	OG1	THR B 246	4.919	68.922	78.749	1.00	51.10	O
ATOM	4878	CG2	THR B 246	2.831	68.115	77.901	1.00	42.75	C
ATOM	4879	N	SER B 247	0.535	69.725	79.406	1.00	52.71	N
ATOM	4880	CA	SER B 247	-0.835	69.780	78.901	1.00	54.33	C
ATOM	4881	C	SER B 247	-1.222	71.219	78.577	1.00	52.57	C
ATOM	4882	O	SER B 247	-1.774	71.503	77.494	1.00	46.52	O
ATOM	4883	CB	SER B 247	-1.796	69.205	79.939	1.00	58.27	C
ATOM	4884	OG	SER B 247	-3.072	69.010	79.379	1.00	68.82	O

ATOM	4885	N	PHE	B	248	-0.916	72.113	79.520	1.00	52.38	N
ATOM	4886	CA	PHE	B	248	-1.200	73.541	79.384	1.00	53.08	C
ATOM	4887	C	PHE	B	248	-0.056	74.345	78.707	1.00	47.47	C
ATOM	4888	O	PHE	B	248	0.340	75.415	79.167	1.00	48.64	O
ATOM	4889	CB	PHE	B	248	-1.543	74.131	80.768	1.00	62.47	C
ATOM	4890	CG	PHE	B	248	-1.604	75.640	80.797	1.00	67.88	C
ATOM	4891	CD1	PHE	B	248	-2.481	76.342	79.962	1.00	77.15	C
ATOM	4892	CD2	PHE	B	248	-0.741	76.361	81.617	1.00	60.79	C
ATOM	4893	CE1	PHE	B	248	-2.491	77.747	79.943	1.00	78.98	C
ATOM	4894	CE2	PHE	B	248	-0.741	77.757	81.608	1.00	70.08	C
ATOM	4895	CZ	PHE	B	248	-1.616	78.451	80.769	1.00	78.87	C
ATOM	4896	N	ASN	B	249	0.487	73.824	77.613	1.00	40.98	N
ATOM	4897	CA	ASN	B	249	1.528	74.549	76.903	1.00	36.61	C
ATOM	4898	C	ASN	B	249	1.728	74.118	75.475	1.00	41.21	C
ATOM	4899	O	ASN	B	249	2.398	74.802	74.715	1.00	37.57	O
ATOM	4900	CB	ASN	B	249	2.853	74.459	77.642	1.00	32.34	C
ATOM	4901	CG	ASN	B	249	3.032	75.579	78.621	1.00	39.45	C
ATOM	4902	OD1	ASN	B	249	2.839	76.741	78.280	1.00	53.83	O
ATOM	4903	ND2	ASN	B	249	3.405	75.245	79.842	1.00	32.18	N
ATOM	4904	N	GLN	B	250	1.138	72.990	75.106	1.00	51.49	N
ATOM	4905	CA	GLN	B	250	1.268	72.473	73.748	1.00	54.53	C
ATOM	4906	C	GLN	B	250	1.378	73.562	72.680	1.00	56.62	C
ATOM	4907	O	GLN	B	250	2.160	73.429	71.745	1.00	58.26	O
ATOM	4908	CB	GLN	B	250	0.101	71.532	73.428	1.00	52.25	C
ATOM	4909	CG	GLN	B	250	-1.071	71.642	74.400	1.00	46.12	C
ATOM	4910	CD	GLN	B	250	-2.072	70.521	74.223	1.00	42.95	C
ATOM	4911	OE1	GLN	B	250	-1.716	69.341	74.272	1.00	41.42	O
ATOM	4912	NE2	GLN	B	250	-3.333	70.883	74.014	1.00	50.95	N
ATOM	4913	N	GLU	B	251	0.611	74.640	72.823	1.00	60.83	N
ATOM	4914	CA	GLU	B	251	0.655	75.734	71.855	1.00	66.60	C
ATOM	4915	C	GLU	B	251	2.071	75.992	71.385	1.00	66.06	C
ATOM	4916	O	GLU	B	251	2.354	75.908	70.197	1.00	72.41	O
ATOM	4917	CB	GLU	B	251	0.100	77.030	72.459	1.00	77.84	C
ATOM	4918	CG	GLU	B	251	-1.399	77.224	72.296	1.00	87.92	C
ATOM	4919	CD	GLU	B	251	-2.207	76.123	72.950	1.00	97.98	C
ATOM	4920	OE1	GLU	B	251	-2.079	74.957	72.516	1.00	102.31	O
ATOM	4921	OE2	GLU	B	251	-2.968	76.421	73.900	1.00	105.99	O
ATOM	4922	N	ARG	B	252	2.962	76.287	72.326	1.00	61.86	N
ATOM	4923	CA	ARG	B	252	4.354	76.595	72.005	1.00	63.12	C
ATOM	4924	C	ARG	B	252	5.265	75.418	71.704	1.00	59.68	C
ATOM	4925	O	ARG	B	252	6.085	75.483	70.789	1.00	65.66	O
ATOM	4926	CB	ARG	B	252	5.003	77.386	73.138	1.00	70.07	C
ATOM	4927	CG	ARG	B	252	4.302	78.659	73.506	1.00	82.92	C
ATOM	4928	CD	ARG	B	252	5.048	79.344	74.624	1.00	92.51	C
ATOM	4929	NE	ARG	B	252	4.238	80.392	75.228	1.00	106.07	N
ATOM	4930	CZ	ARG	B	252	3.073	80.182	75.837	1.00	111.28	C
ATOM	4931	NH1	ARG	B	252	2.576	78.955	75.926	1.00	112.64	N
ATOM	4932	NH2	ARG	B	252	2.402	81.201	76.356	1.00	118.84	N
ATOM	4933	N	ILE	B	253	5.134	74.344	72.466	1.00	51.23	N
ATOM	4934	CA	ILE	B	253	6.014	73.206	72.278	1.00	46.86	C
ATOM	4935	C	ILE	B	253	5.591	72.105	71.322	1.00	52.26	C
ATOM	4936	O	ILE	B	253	6.290	71.826	70.352	1.00	54.80	O
ATOM	4937	CB	ILE	B	253	6.332	72.564	73.621	1.00	37.51	C
ATOM	4938	CG1	ILE	B	253	5.037	72.266	74.368	1.00	35.63	C
ATOM	4939	CG2	ILE	B	253	7.210	73.491	74.442	1.00	35.75	C
ATOM	4940	CD1	ILE	B	253	5.259	71.630	75.708	1.00	50.20	C
ATOM	4941	N	VAL	B	254	4.456	71.475	71.601	1.00	57.96	N
ATOM	4942	CA	VAL	B	254	3.944	70.370	70.784	1.00	63.04	C
ATOM	4943	C	VAL	B	254	4.249	70.475	69.294	1.00	62.84	C
ATOM	4944	O	VAL	B	254	4.413	69.464	68.603	1.00	62.31	O
ATOM	4945	CB	VAL	B	254	2.416	70.232	70.927	1.00	63.66	C
ATOM	4946	CG1	VAL	B	254	1.709	71.199	69.963	1.00	71.38	C
ATOM	4947	CG2	VAL	B	254	2.004	68.796	70.665	1.00	62.89	C
ATOM	4948	N	ASP	B	255	4.326	71.711	68.815	1.00	64.03	N
ATOM	4949	CA	ASP	B	255	4.576	72.011	67.413	1.00	66.53	C
ATOM	4950	C	ASP	B	255	6.011	71.803	66.911	1.00	63.06	C
ATOM	4951	O	ASP	B	255	6.245	71.002	66.012	1.00	65.92	O
ATOM	4952	CB	ASP	B	255	4.152	73.449	67.144	1.00	76.95	C
ATOM	4953	CG	ASP	B	255	3.518	73.614	65.798	1.00	84.76	C
ATOM	4954	OD1	ASP	B	255	3.320	74.769	65.366	1.00	92.91	O
ATOM	4955	OD2	ASP	B	255	3.210	72.578	65.180	1.00	84.06	O
ATOM	4956	N	VAL	B	256	6.959	72.534	67.491	1.00	55.56	N
ATOM	4957	CA	VAL	B	256	8.368	72.446	67.105	1.00	42.48	C
ATOM	4958	C	VAL	B	256	8.983	71.059	67.301	1.00	41.65	C
ATOM	4959	O	VAL	B	256	10.195	70.883	67.195	1.00	36.11	O
ATOM	4960	CB	VAL	B	256	9.206	73.466	67.898	1.00	39.75	C
ATOM	4961	CG1	VAL	B	256	8.994	74.864	67.336	1.00	46.21	C
ATOM	4962	CG2	VAL	B	256	8.806	73.427	69.350	1.00	37.08	C
ATOM	4963	N	ALA	B	257	8.145	70.074	67.585	1.00	45.55	N

ATOM	4964	CA	ALA	B	257	8.613	68.715	67.791	1.00	46.48	C
ATOM	4965	C	ALA	B	257	8.669	67.932	66.482	1.00	45.47	C
ATOM	4966	O	ALA	B	257	7.769	68.024	65.651	1.00	45.44	O
ATOM	4967	CB	ALA	B	257	7.704	68.014	68.766	1.00	47.89	C
ATOM	4968	N	GLY	B	258	9.725	67.147	66.311	1.00	40.90	N
ATOM	4969	CA	GLY	B	258	9.878	66.357	65.105	1.00	43.33	C
ATOM	4970	C	GLY	B	258	11.314	65.889	64.999	1.00	47.01	C
ATOM	4971	O	GLY	B	258	12.145	66.293	65.809	1.00	49.36	O
ATOM	4972	N	PRO	B	259	11.646	65.045	64.013	1.00	47.91	N
ATOM	4973	CA	PRO	B	259	13.002	64.527	63.818	1.00	51.95	C
ATOM	4974	C	PRO	B	259	14.115	65.546	64.022	1.00	51.79	C
ATOM	4975	O	PRO	B	259	14.022	66.681	63.556	1.00	51.46	O
ATOM	4976	CB	PRO	B	259	12.949	64.002	62.399	1.00	51.34	C
ATOM	4977	CG	PRO	B	259	11.592	63.428	62.349	1.00	52.80	C
ATOM	4978	CD	PRO	B	259	10.742	64.505	62.988	1.00	48.81	C
ATOM	4979	N	GLY	B	260	15.167	65.129	64.721	1.00	48.65	N
ATOM	4980	CA	GLY	B	260	16.278	66.019	64.975	1.00	43.90	C
ATOM	4981	C	GLY	B	260	16.125	66.724	66.306	1.00	42.81	C
ATOM	4982	O	GLY	B	260	17.087	66.837	67.057	1.00	47.41	O
ATOM	4983	N	GLY	B	261	14.916	67.197	66.601	1.00	37.57	N
ATOM	4984	CA	GLY	B	261	14.666	67.895	67.858	1.00	40.11	C
ATOM	4985	C	GLY	B	261	13.399	67.464	68.585	1.00	40.00	C
ATOM	4986	O	GLY	B	261	12.316	67.446	68.004	1.00	40.66	O
ATOM	4987	N	TRP	B	262	13.520	67.135	69.866	1.00	35.86	N
ATOM	4988	CA	TRP	B	262	12.359	66.683	70.622	1.00	34.24	C
ATOM	4989	C	TRP	B	262	12.133	67.402	71.937	1.00	31.66	C
ATOM	4990	O	TRP	B	262	13.048	67.996	72.510	1.00	28.45	O
ATOM	4991	CB	TRP	B	262	12.482	65.199	70.951	1.00	32.57	C
ATOM	4992	CG	TRP	B	262	12.942	64.349	69.828	1.00	30.95	C
ATOM	4993	CD1	TRP	B	262	14.204	63.853	69.630	1.00	31.59	C
ATOM	4994	CD2	TRP	B	262	12.142	63.849	68.757	1.00	32.51	C
ATOM	4995	NE1	TRP	B	262	14.231	63.069	68.506	1.00	31.69	N
ATOM	4996	CE2	TRP	B	262	12.977	63.050	67.951	1.00	30.51	C
ATOM	4997	CE3	TRP	B	262	10.795	63.993	68.403	1.00	37.67	C
ATOM	4998	CZ2	TRP	B	262	12.507	62.399	66.806	1.00	38.08	C
ATOM	4999	CZ3	TRP	B	262	10.328	63.342	67.262	1.00	36.12	C
ATOM	5000	CH2	TRP	B	262	11.182	62.555	66.481	1.00	38.79	C
ATOM	5001	N	ASN	B	263	10.897	67.330	72.420	1.00	27.62	N
ATOM	5002	CA	ASN	B	263	10.553	67.916	73.706	1.00	29.78	C
ATOM	5003	C	ASN	B	263	10.881	66.844	74.721	1.00	30.61	C
ATOM	5004	O	ASN	B	263	10.416	65.707	74.587	1.00	34.51	O
ATOM	5005	CB	ASN	B	263	9.070	68.252	73.766	1.00	27.54	C
ATOM	5006	CG	ASN	B	263	8.796	69.689	73.400	1.00	18.61	C
ATOM	5007	OD1	ASN	B	263	9.417	70.599	73.949	1.00	19.50	O
ATOM	5008	ND2	ASN	B	263	7.861	69.910	72.484	1.00	3.57	N
ATOM	5009	N	ASP	B	264	11.680	67.200	75.727	1.00	29.39	N
ATOM	5010	CA	ASP	B	264	12.107	66.241	76.744	1.00	33.04	C
ATOM	5011	C	ASP	B	264	11.641	66.514	78.178	1.00	23.85	C
ATOM	5012	O	ASP	B	264	12.137	67.425	78.838	1.00	16.32	O
ATOM	5013	CB	ASP	B	264	13.635	66.115	76.658	1.00	38.21	C
ATOM	5014	CG	ASP	B	264	14.274	65.627	77.941	1.00	44.50	C
ATOM	5015	OD1	ASP	B	264	13.840	64.596	78.506	1.00	43.89	O
ATOM	5016	OD2	ASP	B	264	15.244	66.288	78.373	1.00	44.94	O
ATOM	5017	N	PRO	B	265	10.677	65.701	78.671	1.00	16.68	N
ATOM	5018	CA	PRO	B	265	10.021	65.698	79.994	1.00	23.78	C
ATOM	5019	C	PRO	B	265	10.999	65.414	81.123	1.00	31.97	C
ATOM	5020	O	PRO	B	265	11.084	66.150	82.112	1.00	36.28	O
ATOM	5021	CB	PRO	B	265	8.992	64.569	79.872	1.00	15.47	C
ATOM	5022	CG	PRO	B	265	8.702	64.519	78.401	1.00	17.28	C
ATOM	5023	CD	PRO	B	265	10.077	64.660	77.819	1.00	19.34	C
ATOM	5024	N	ASP	B	266	11.699	64.298	80.953	1.00	31.98	N
ATOM	5025	CA	ASP	B	266	12.719	63.814	81.869	1.00	32.87	C
ATOM	5026	C	ASP	B	266	12.789	62.291	81.881	1.00	37.73	C
ATOM	5027	O	ASP	B	266	12.058	61.599	81.153	1.00	33.38	O
ATOM	5028	CB	ASP	B	266	12.514	64.327	83.295	1.00	32.08	C
ATOM	5029	CG	ASP	B	266	13.831	64.658	83.963	1.00	35.35	C
ATOM	5030	OD1	ASP	B	266	14.861	64.131	83.472	1.00	19.67	O
ATOM	5031	OD2	ASP	B	266	13.843	65.419	84.963	1.00	48.42	O
ATOM	5032	N	MET	B	267	13.680	61.777	82.718	1.00	40.95	N
ATOM	5033	CA	MET	B	267	13.886	60.348	82.830	1.00	36.87	C
ATOM	5034	C	MET	B	267	12.617	59.566	83.150	1.00	35.46	C
ATOM	5035	O	MET	B	267	11.600	60.131	83.559	1.00	33.12	O
ATOM	5036	CB	MET	B	267	14.950	60.093	83.889	1.00	33.99	C
ATOM	5037	CG	MET	B	267	16.236	60.849	83.611	1.00	37.20	C
ATOM	5038	SD	MET	B	267	17.220	61.194	85.089	1.00	52.40	S
ATOM	5039	CE	MET	B	267	16.578	62.777	85.531	1.00	54.81	C
ATOM	5040	N	LEU	B	268	12.692	58.258	82.925	1.00	28.80	N
ATOM	5041	CA	LEU	B	268	11.602	57.334	83.203	1.00	20.10	C
ATOM	5042	C	LEU	B	268	11.910	56.720	84.571	1.00	25.74	C

ATOM	5043	O	LEU	B	268	12.890	55.985	84.730	1.00	34.41	O
ATOM	5044	CB	LEU	B	268	11.537	56.234	82.134	1.00	3.31	C
ATOM	5045	CG	LEU	B	268	10.921	56.641	80.795	1.00	10.00	C
ATOM	5046	CD1	LEU	B	268	10.884	55.464	79.832	1.00	16.37	C
ATOM	5047	CD2	LEU	B	268	9.507	57.143	81.040	1.00	11.46	C
ATOM	5048	N	VAL	B	269	11.079	57.032	85.560	1.00	25.36	N
ATOM	5049	CA	VAL	B	269	11.289	56.527	86.900	1.00	32.25	C
ATOM	5050	C	VAL	B	269	10.592	55.199	87.161	1.00	29.26	C
ATOM	5051	O	VAL	B	269	10.437	54.778	88.305	1.00	29.53	O
ATOM	5052	CB	VAL	B	269	10.815	57.546	87.914	1.00	41.96	C
ATOM	5053	CG1	VAL	B	269	11.434	58.895	87.600	1.00	46.38	C
ATOM	5054	CG2	VAL	B	269	9.316	57.633	87.884	1.00	49.99	C
ATOM	5055	N	ILE	B	270	10.164	54.545	86.091	1.00	25.36	N
ATOM	5056	CA	ILE	B	270	9.500	53.247	86.186	1.00	28.24	C
ATOM	5057	C	ILE	B	270	10.525	52.188	86.593	1.00	27.45	C
ATOM	5058	O	ILE	B	270	11.608	52.100	86.012	1.00	31.99	O
ATOM	5059	CB	ILE	B	270	8.880	52.849	84.825	1.00	30.74	C
ATOM	5060	CG1	ILE	B	270	7.737	53.805	84.470	1.00	41.38	C
ATOM	5061	CG2	ILE	B	270	8.381	51.429	84.873	1.00	31.73	C
ATOM	5062	CD1	ILE	B	270	7.289	53.733	83.016	1.00	46.12	C
ATOM	5063	N	GLY	B	271	10.192	51.382	87.592	1.00	25.49	N
ATOM	5064	CA	GLY	B	271	11.124	50.355	88.022	1.00	25.99	C
ATOM	5065	C	GLY	B	271	11.692	50.663	89.385	1.00	30.96	C
ATOM	5066	O	GLY	B	271	12.432	49.863	89.955	1.00	32.97	O
ATOM	5067	N	ASN	B	272	11.344	51.845	89.885	1.00	35.11	N
ATOM	5068	CA	ASN	B	272	11.770	52.307	91.196	1.00	41.44	C
ATOM	5069	C	ASN	B	272	10.708	51.959	92.227	1.00	43.88	C
ATOM	5070	O	ASN	B	272	10.193	50.846	92.226	1.00	50.40	O
ATOM	5071	CB	ASN	B	272	12.012	53.809	91.180	1.00	47.76	C
ATOM	5072	CG	ASN	B	272	13.327	54.166	90.558	1.00	52.95	C
ATOM	5073	OD1	ASN	B	272	13.674	53.664	89.489	1.00	61.78	O
ATOM	5074	ND2	ASN	B	272	14.073	55.041	91.218	1.00	49.92	N
ATOM	5075	N	PHE	B	273	10.345	52.914	93.077	1.00	40.92	N
ATOM	5076	CA	PHE	B	273	9.374	52.644	94.130	1.00	45.10	C
ATOM	5077	C	PHE	B	273	8.260	53.651	94.287	1.00	50.43	C
ATOM	5078	O	PHE	B	273	7.190	53.313	94.775	1.00	55.97	O
ATOM	5079	CB	PHE	B	273	10.091	52.517	95.478	1.00	48.93	C
ATOM	5080	CG	PHE	B	273	11.593	52.623	95.382	1.00	50.45	C
ATOM	5081	CD1	PHE	B	273	12.403	51.634	95.920	1.00	48.08	C
ATOM	5082	CD2	PHE	B	273	12.198	53.698	94.728	1.00	52.55	C
ATOM	5083	CE1	PHE	B	273	13.790	51.704	95.808	1.00	50.98	C
ATOM	5084	CE2	PHE	B	273	13.586	53.778	94.608	1.00	61.31	C
ATOM	5085	CZ	PHE	B	273	14.382	52.776	95.149	1.00	59.14	C
ATOM	5086	N	GLY	B	274	8.513	54.888	93.889	1.00	46.82	N
ATOM	5087	CA	GLY	B	274	7.509	55.925	94.040	1.00	35.92	C
ATOM	5088	C	GLY	B	274	6.213	55.756	93.269	1.00	31.72	C
ATOM	5089	O	GLY	B	274	5.185	56.352	93.633	1.00	33.90	O
ATOM	5090	N	LEU	B	275	6.239	54.941	92.218	1.00	28.97	N
ATOM	5091	CA	LEU	B	275	5.038	54.744	91.419	1.00	26.12	C
ATOM	5092	C	LEU	B	275	4.311	53.425	91.608	1.00	28.74	O
ATOM	5093	O	LEU	B	275	4.931	52.372	91.748	1.00	31.57	C
ATOM	5094	CB	LEU	B	275	5.369	54.930	89.945	1.00	26.02	C
ATOM	5095	CG	LEU	B	275	5.958	56.304	89.620	1.00	23.75	C
ATOM	5096	CD1	LEU	B	275	5.811	56.551	88.130	1.00	28.23	C
ATOM	5097	CD2	LEU	B	275	5.231	57.396	90.414	1.00	22.80	C
ATOM	5098	N	SER	B	276	2.986	53.498	91.630	1.00	28.06	N
ATOM	5099	CA	SER	B	276	2.182	52.302	91.770	1.00	36.79	C
ATOM	5100	C	SER	B	276	2.153	51.726	90.367	1.00	40.22	C
ATOM	5101	O	SER	B	276	2.698	52.314	89.440	1.00	38.89	O
ATOM	5102	CB	SER	B	276	0.766	52.652	92.181	1.00	40.24	C
ATOM	5103	OG	SER	B	276	0.083	53.229	91.078	1.00	45.11	O
ATOM	5104	N	TRP	B	277	1.493	50.589	90.206	1.00	43.13	N
ATOM	5105	CA	TRP	B	277	1.422	49.965	88.907	1.00	39.95	C
ATOM	5106	C	TRP	B	277	0.660	50.820	87.936	1.00	36.27	C
ATOM	5107	O	TRP	B	277	1.149	51.135	86.845	1.00	35.96	O
ATOM	5108	CB	TRP	B	277	0.732	48.612	88.972	1.00	46.97	C
ATOM	5109	CG	TRP	B	277	0.617	48.018	87.607	1.00	46.70	C
ATOM	5110	CD1	TRP	B	277	-0.530	47.728	86.928	1.00	46.98	C
ATOM	5111	CD2	TRP	B	277	1.701	47.695	86.725	1.00	48.84	C
ATOM	5112	NE1	TRP	B	277	-0.230	47.244	85.674	1.00	45.37	N
ATOM	5113	CE2	TRP	B	277	1.132	47.214	85.523	1.00	48.55	C
ATOM	5114	CE3	TRP	B	277	3.099	47.768	86.835	1.00	49.30	C
ATOM	5115	CZ2	TRP	B	277	1.912	46.806	84.435	1.00	44.51	C
ATOM	5116	CZ3	TRP	B	277	3.874	47.365	85.759	1.00	45.41	C
ATOM	5117	CH2	TRP	B	277	3.276	46.889	84.570	1.00	42.60	C
ATOM	5118	N	ASN	B	278	-0.556	51.177	88.314	1.00	32.20	N
ATOM	5119	CA	ASN	B	278	-1.359	51.984	87.423	1.00	31.29	C
ATOM	5120	C	ASN	B	278	-0.672	53.268	87.060	1.00	31.61	C
ATOM	5121	O	ASN	B	278	-0.885	53.804	85.975	1.00	32.14	O

ATOM	5122	CB	ASN	B	278	-2.693	52.278	88.059	1.00	36.76	C
ATOM	5123	CG	ASN	B	278	-3.697	51.231	87.735	1.00	37.14	C
ATOM	5124	OD1	ASN	B	278	-4.181	51.161	86.604	1.00	30.93	O
ATOM	5125	ND2	ASN	B	278	-4.006	50.379	88.714	1.00	42.27	N
ATOM	5126	N	GLN	B	279	0.171	53.742	87.970	1.00	32.31	N
ATOM	5127	CA	GLN	B	279	0.897	54.978	87.759	1.00	31.16	C
ATOM	5128	C	GLN	B	279	2.053	54.829	86.775	1.00	34.55	C
ATOM	5129	O	GLN	B	279	2.360	55.757	86.035	1.00	31.95	O
ATOM	5130	CB	GLN	B	279	1.390	55.506	89.099	1.00	19.15	C
ATOM	5131	CG	GLN	B	279	0.288	56.135	89.909	1.00	3.31	C
ATOM	5132	CD	GLN	B	279	0.619	56.185	91.367	1.00	4.33	C
ATOM	5133	OE1	GLN	B	279	1.751	56.473	91.743	1.00	20.32	O
ATOM	5134	NE2	GLN	B	279	-0.371	55.907	92.211	1.00	9.62	N
ATOM	5135	N	GLN	B	280	2.682	53.659	86.757	1.00	35.28	N
ATOM	5136	CA	GLN	B	280	3.795	53.414	85.851	1.00	28.21	C
ATOM	5137	C	GLN	B	280	3.335	53.340	84.390	1.00	33.39	C
ATOM	5138	O	GLN	B	280	3.913	53.998	83.513	1.00	29.04	O
ATOM	5139	CB	GLN	B	280	4.517	52.119	86.232	1.00	19.60	C
ATOM	5140	CG	GLN	B	280	5.061	52.098	87.637	1.00	25.07	C
ATOM	5141	CD	GLN	B	280	5.960	50.915	87.897	1.00	33.96	C
ATOM	5142	OE1	GLN	B	280	7.058	50.830	87.351	1.00	39.59	O
ATOM	5143	NE2	GLN	B	280	5.498	49.987	88.727	1.00	35.05	N
ATOM	5144	N	VAL	B	281	2.300	52.550	84.118	1.00	33.52	N
ATOM	5145	CA	VAL	B	281	1.822	52.445	82.744	1.00	33.85	C
ATOM	5146	C	VAL	B	281	1.543	53.841	82.219	1.00	32.53	C
ATOM	5147	O	VAL	B	281	1.828	54.158	81.072	1.00	34.07	O
ATOM	5148	CB	VAL	B	281	0.526	51.599	82.638	1.00	31.50	C
ATOM	5149	CG1	VAL	B	281	0.697	50.324	83.426	1.00	32.91	C
ATOM	5150	CG2	VAL	B	281	-0.682	52.392	83.126	1.00	33.47	C
ATOM	5151	N	THR	B	282	0.992	54.677	83.086	1.00	23.34	N
ATOM	5152	CA	THR	B	282	0.664	56.036	82.714	1.00	12.70	C
ATOM	5153	C	THR	B	282	1.873	56.762	82.134	1.00	11.31	C
ATOM	5154	O	THR	B	282	1.831	57.183	80.981	1.00	17.88	O
ATOM	5155	CB	THR	B	282	0.135	56.826	83.920	1.00	15.31	C
ATOM	5156	OG1	THR	B	282	-0.916	56.093	84.564	1.00	16.34	O
ATOM	5157	CG2	THR	B	282	-0.406	58.160	83.465	1.00	17.32	C
ATOM	5158	N	GLN	B	283	2.948	56.898	82.916	1.00	4.99	N
ATOM	5159	CA	GLN	B	283	4.148	57.593	82.428	1.00	10.41	C
ATOM	5160	C	GLN	B	283	4.606	57.030	81.084	1.00	13.30	C
ATOM	5161	O	GLN	B	283	4.811	57.772	80.126	1.00	15.31	O
ATOM	5162	CB	GLN	B	283	5.327	57.499	83.418	1.00	3.31	C
ATOM	5163	CG	GLN	B	283	6.612	58.139	82.837	1.00	23.14	C
ATOM	5164	CD	GLN	B	283	7.843	58.027	83.732	1.00	32.77	C
ATOM	5165	OE1	GLN	B	283	8.285	56.931	84.071	1.00	34.41	O
ATOM	5166	NE2	GLN	B	283	8.409	59.170	84.103	1.00	42.97	N
ATOM	5167	N	MET	B	284	4.779	55.714	81.028	1.00	15.81	N
ATOM	5168	CA	MET	B	284	5.194	55.055	79.803	1.00	14.55	C
ATOM	5169	C	MET	B	284	4.225	55.376	78.667	1.00	11.07	C
ATOM	5170	O	MET	B	284	4.640	55.794	77.596	1.00	5.42	O
ATOM	5171	CB	MET	B	284	5.238	53.546	80.022	1.00	13.69	C
ATOM	5172	CG	MET	B	284	5.767	52.755	78.844	1.00	8.27	C
ATOM	5173	SD	MET	B	284	7.559	52.899	78.676	1.00	21.12	S
ATOM	5174	CE	MET	B	284	7.661	53.878	77.067	1.00	26.82	C
ATOM	5175	N	ALA	B	285	2.934	55.171	78.899	1.00	9.54	N
ATOM	5176	CA	ALA	B	285	1.936	55.446	77.878	1.00	12.00	C
ATOM	5177	C	ALA	B	285	2.054	56.872	77.374	1.00	13.36	C
ATOM	5178	O	ALA	B	285	2.098	57.112	76.160	1.00	17.10	O
ATOM	5179	CB	ALA	B	285	0.546	55.218	78.428	1.00	23.30	C
ATOM	5180	N	LEU	B	286	2.113	57.825	78.296	1.00	12.23	N
ATOM	5181	CA	LEU	B	286	2.206	59.216	77.887	1.00	14.82	C
ATOM	5182	C	LEU	B	286	3.544	59.671	77.306	1.00	18.25	C
ATOM	5183	O	LEU	B	286	3.551	60.513	76.410	1.00	29.59	O
ATOM	5184	CB	LEU	B	286	1.740	60.129	79.018	1.00	19.13	C
ATOM	5185	CG	LEU	B	286	0.208	60.174	78.942	1.00	12.90	C
ATOM	5186	CD1	LEU	B	286	-0.385	60.212	80.316	1.00	24.27	C
ATOM	5187	CD2	LEU	B	286	-0.233	61.371	78.145	1.00	7.95	C
ATOM	5188	N	TRP	B	287	4.671	59.138	77.769	1.00	16.94	N
ATOM	5189	CA	TRP	B	287	5.924	59.560	77.160	1.00	25.08	C
ATOM	5190	C	TRP	B	287	5.850	59.156	75.694	1.00	30.58	C
ATOM	5191	O	TRP	B	287	6.353	59.855	74.810	1.00	37.20	O
ATOM	5192	CB	TRP	B	287	7.121	58.894	77.812	1.00	19.43	C
ATOM	5193	CG	TRP	B	287	7.782	59.744	78.855	1.00	27.34	C
ATOM	5194	CD1	TRP	B	287	9.125	59.961	79.004	1.00	40.95	C
ATOM	5195	CD2	TRP	B	287	7.145	60.463	79.916	1.00	20.62	C
ATOM	5196	NE1	TRP	B	287	9.370	60.763	80.099	1.00	28.11	N
ATOM	5197	CE2	TRP	B	287	8.173	61.080	80.681	1.00	18.44	C
ATOM	5198	CE3	TRP	B	287	5.814	60.631	80.313	1.00	19.29	C
ATOM	5199	CZ2	TRP	B	287	7.908	61.871	81.794	1.00	22.11	C
ATOM	5200	CZ3	TRP	B	287	5.552	61.417	81.421	1.00	33.41	C

ATOM	5201	CH2	TRP	B	287	6.596	62.022	82.156	1.00	28.12	C
ATOM	5202	N	ALA	B	288	5.204	58.024	75.441	1.00	27.82	N
ATOM	5203	CA	ALA	B	288	5.043	57.531	74.084	1.00	26.69	C
ATOM	5204	C	ALA	B	288	4.188	58.509	73.293	1.00	25.25	C
ATOM	5205	O	ALA	B	288	4.467	58.794	72.124	1.00	19.52	O
ATOM	5206	CB	ALA	B	288	4.388	56.167	74.104	1.00	33.43	C
ATOM	5207	N	ILE	B	289	3.142	59.025	73.934	1.00	20.43	N
ATOM	5208	CA	ILE	B	289	2.258	59.975	73.266	1.00	23.46	C
ATOM	5209	C	ILE	B	289	3.002	61.256	72.960	1.00	30.21	C
ATOM	5210	O	ILE	B	289	2.797	61.857	71.907	1.00	39.56	O
ATOM	5211	CB	ILE	B	289	1.039	60.348	74.125	1.00	20.26	C
ATOM	5212	CG1	ILE	B	289	0.093	59.150	74.233	1.00	21.33	C
ATOM	5213	CG2	ILE	B	289	0.305	61.528	73.488	1.00	17.24	C
ATOM	5214	CD1	ILE	B	289	-0.599	58.824	72.916	1.00	16.19	C
ATOM	5215	N	MET	B	290	3.871	61.667	73.882	1.00	23.96	N
ATOM	5216	CA	MET	B	290	4.628	62.900	73.710	1.00	20.64	C
ATOM	5217	C	MET	B	290	6.004	62.752	73.088	1.00	22.98	C
ATOM	5218	O	MET	B	290	6.933	63.463	73.509	1.00	29.05	O
ATOM	5219	CB	MET	B	290	4.815	63.582	75.047	1.00	22.08	C
ATOM	5220	CG	MET	B	290	3.566	63.737	75.855	1.00	21.11	C
ATOM	5221	SD	MET	B	290	4.061	64.589	77.350	1.00	19.71	S
ATOM	5222	CE	MET	B	290	4.643	63.133	78.403	1.00	3.31	C
ATOM	5223	N	ALA	B	291	6.135	61.863	72.099	1.00	23.81	N
ATOM	5224	CA	ALA	B	291	7.415	61.638	71.447	1.00	25.68	C
ATOM	5225	C	ALA	B	291	8.488	62.261	72.329	1.00	23.85	C
ATOM	5226	O	ALA	B	291	9.094	63.282	71.987	1.00	26.09	O
ATOM	5227	CB	ALA	B	291	7.420	62.278	70.086	1.00	28.53	C
ATOM	5228	N	ALA	B	292	8.685	61.664	73.497	1.00	21.19	N
ATOM	5229	CA	ALA	B	292	9.674	62.165	74.433	1.00	25.88	C
ATOM	5230	C	ALA	B	292	10.872	61.224	74.482	1.00	22.90	C
ATOM	5231	O	ALA	B	292	10.742	60.030	74.199	1.00	18.54	O
ATOM	5232	CB	ALA	B	292	9.054	62.293	75.817	1.00	31.58	C
ATOM	5233	N	PRO	B	293	12.060	61.749	74.837	1.00	22.52	N
ATOM	5234	CA	PRO	B	293	13.217	60.856	74.893	1.00	28.95	C
ATOM	5235	C	PRO	B	293	12.964	59.820	75.994	1.00	33.22	C
ATOM	5236	O	PRO	B	293	12.453	60.151	77.066	1.00	37.99	O
ATOM	5237	CB	PRO	B	293	14.379	61.802	75.237	1.00	31.26	C
ATOM	5238	CG	PRO	B	293	13.911	63.147	74.783	1.00	35.10	C
ATOM	5239	CD	PRO	B	293	12.453	63.130	75.179	1.00	29.37	C
ATOM	5240	N	LEU	B	294	13.315	58.570	75.723	1.00	33.61	N
ATOM	5241	CA	LEU	B	294	13.121	57.511	76.696	1.00	30.85	C
ATOM	5242	C	LEU	B	294	14.393	57.213	77.455	1.00	29.78	C
ATOM	5243	O	LEU	B	294	15.291	56.524	76.950	1.00	26.27	O
ATOM	5244	CB	LEU	B	294	12.650	56.242	76.007	1.00	37.34	C
ATOM	5245	CG	LEU	B	294	11.398	56.505	75.184	1.00	35.26	C
ATOM	5246	CD1	LEU	B	294	11.000	55.233	74.453	1.00	42.55	C
ATOM	5247	CD2	LEU	B	294	10.278	57.009	76.098	1.00	26.36	C
ATOM	5248	N	PHE	B	295	14.475	57.743	78.669	1.00	30.92	N
ATOM	5249	CA	PHE	B	295	15.632	57.502	79.506	1.00	34.03	C
ATOM	5250	C	PHE	B	295	15.218	56.972	80.858	1.00	34.10	C
ATOM	5251	O	PHE	B	295	14.562	57.666	81.645	1.00	42.65	O
ATOM	5252	CB	PHE	B	295	16.448	58.774	79.687	1.00	36.16	C
ATOM	5253	CG	PHE	B	295	17.311	59.079	78.527	1.00	30.56	C
ATOM	5254	CD1	PHE	B	295	16.749	59.300	77.286	1.00	34.14	C
ATOM	5255	CD2	PHE	B	295	18.688	59.091	78.656	1.00	26.11	C
ATOM	5256	CE1	PHE	B	295	17.544	59.526	76.181	1.00	38.29	C
ATOM	5257	CE2	PHE	B	295	19.496	59.316	77.562	1.00	35.19	C
ATOM	5258	CZ	PHE	B	295	18.924	59.534	76.318	1.00	36.95	C
ATOM	5259	N	MET	B	296	15.603	55.733	81.128	1.00	22.48	N
ATOM	5260	CA	MET	B	296	15.280	55.140	82.401	1.00	21.21	C
ATOM	5261	C	MET	B	296	16.238	55.715	83.432	1.00	8.44	C
ATOM	5262	O	MET	B	296	17.267	56.304	83.100	1.00	12.07	O
ATOM	5263	CB	MET	B	296	15.458	53.625	82.329	1.00	29.96	C
ATOM	5264	CG	MET	B	296	14.637	52.943	81.257	1.00	36.98	C
ATOM	5265	SD	MET	B	296	15.077	51.204	81.136	1.00	38.86	S
ATOM	5266	CE	MET	B	296	16.504	51.292	80.091	1.00	33.37	C
ATOM	5267	N	SER	B	297	15.870	55.559	84.688	1.00	3.31	N
ATOM	5268	CA	SER	B	297	16.699	55.986	85.791	1.00	8.77	C
ATOM	5269	C	SER	B	297	16.290	54.970	86.822	1.00	18.70	C
ATOM	5270	O	SER	B	297	15.508	55.254	87.724	1.00	22.71	O
ATOM	5271	CB	SER	B	297	16.338	57.395	86.259	1.00	14.75	C
ATOM	5272	OG	SER	B	297	17.177	57.802	87.337	1.00	8.66	O
ATOM	5273	N	ASN	B	298	16.798	53.764	86.650	1.00	22.61	N
ATOM	5274	CA	ASN	B	298	16.484	52.687	87.558	1.00	29.60	C
ATOM	5275	C	ASN	B	298	17.692	51.780	87.645	1.00	34.27	C
ATOM	5276	O	ASN	B	298	18.615	51.887	86.832	1.00	28.75	O
ATOM	5277	CB	ASN	B	298	15.276	51.912	87.030	1.00	32.96	C
ATOM	5278	CG	ASN	B	298	15.341	51.698	85.535	1.00	38.86	C
ATOM	5279	OD1	ASN	B	298	16.273	51.066	85.024	1.00	39.71	O



ATOM	5280	ND2	ASN	B	298	14.356	52.234	84.816	1.00	41.15	N
ATOM	5281	N	ASP	B	299	17.695	50.904	88.641	1.00	38.90	N
ATOM	5282	CA	ASP	B	299	18.779	49.960	88.772	1.00	39.76	C
ATOM	5283	C	ASP	B	299	18.326	48.711	88.014	1.00	42.94	C
ATOM	5284	O	ASP	B	299	17.504	47.951	88.521	1.00	56.20	O
ATOM	5285	CB	ASP	B	299	19.015	49.622	90.232	1.00	43.59	C
ATOM	5286	CG	ASP	B	299	20.187	48.700	90.415	1.00	61.39	C
ATOM	5287	OD1	ASP	B	299	20.475	47.933	89.478	1.00	69.62	O
ATOM	5288	OD2	ASP	B	299	20.814	48.721	91.494	1.00	72.12	O
ATOM	5289	N	LEU	B	300	18.858	48.512	86.807	1.00	37.42	N
ATOM	5290	CA	LEU	B	300	18.500	47.367	85.968	1.00	37.23	C
ATOM	5291	C	LEU	B	300	18.888	46.014	86.576	1.00	39.88	C
ATOM	5292	O	LEU	B	300	18.591	44.963	86.005	1.00	46.92	O
ATOM	5293	CB	LEU	B	300	19.135	47.500	84.571	1.00	33.44	C
ATOM	5294	CG	LEU	B	300	18.767	48.687	83.670	1.00	42.19	C
ATOM	5295	CD1	LEU	B	300	19.097	49.983	84.378	1.00	49.28	C
ATOM	5296	CD2	LEU	B	300	19.538	48.609	82.354	1.00	41.83	C
ATOM	5297	N	ARG	B	301	19.543	46.040	87.736	1.00	36.03	N
ATOM	5298	CA	ARG	B	301	19.965	44.822	88.438	1.00	43.28	C
ATOM	5299	C	ARG	B	301	18.796	44.373	89.297	1.00	50.61	C
ATOM	5300	O	ARG	B	301	18.327	43.237	89.210	1.00	53.65	O
ATOM	5301	CB	ARG	B	301	21.149	45.137	89.346	1.00	43.12	C
ATOM	5302	CG	ARG	B	301	22.253	45.888	88.624	1.00	46.62	C
ATOM	5303	CD	ARG	B	301	23.340	46.421	89.553	1.00	56.63	C
ATOM	5304	NE	ARG	B	301	22.939	47.621	90.285	1.00	58.70	N
ATOM	5305	CZ	ARG	B	301	23.778	48.381	90.980	1.00	63.45	C
ATOM	5306	NH1	ARG	B	301	25.064	48.074	91.041	1.00	64.54	N
ATOM	5307	NH2	ARG	B	301	23.332	49.447	91.619	1.00	72.40	N
ATOM	5308	N	HIS	B	302	18.343	45.304	90.128	1.00	56.54	N
ATOM	5309	CA	HIS	B	302	17.229	45.082	91.021	1.00	64.34	C
ATOM	5310	C	HIS	B	302	16.012	45.816	90.469	1.00	60.12	C
ATOM	5311	O	HIS	B	302	15.606	46.864	90.983	1.00	64.27	O
ATOM	5312	CB	HIS	B	302	17.564	45.594	92.425	1.00	73.45	C
ATOM	5313	CG	HIS	B	302	18.838	45.037	92.984	1.00	85.14	C
ATOM	5314	ND1	HIS	B	302	18.988	43.708	93.314	1.00	91.07	N
ATOM	5315	CD2	HIS	B	302	20.029	45.625	93.244	1.00	91.96	C
ATOM	5316	CE1	HIS	B	302	20.218	43.499	93.751	1.00	94.56	C
ATOM	5317	NE2	HIS	B	302	20.870	44.647	93.718	1.00	97.45	N
ATOM	5318	N	ILE	B	303	15.455	45.269	89.391	1.00	52.24	N
ATOM	5319	CA	ILE	B	303	14.274	45.837	88.763	1.00	42.64	C
ATOM	5320	C	ILE	B	303	13.231	44.745	88.606	1.00	45.64	C
ATOM	5321	O	ILE	B	303	13.535	43.642	88.143	1.00	43.87	O
ATOM	5322	CB	ILE	B	303	14.596	46.424	87.374	1.00	41.50	C
ATOM	5323	CG1	ILE	B	303	13.331	47.030	86.769	1.00	49.28	C
ATOM	5324	CG2	ILE	B	303	15.139	45.343	86.458	1.00	34.23	C
ATOM	5325	CD1	ILE	B	303	13.575	47.812	85.514	1.00	50.30	C
ATOM	5326	N	SER	B	304	12.008	45.057	89.013	1.00	46.67	N
ATOM	5327	CA	SER	B	304	10.898	44.119	88.930	1.00	48.72	C
ATOM	5328	C	SER	B	304	10.760	43.527	87.541	1.00	49.16	C
ATOM	5329	O	SER	B	304	11.070	44.185	86.550	1.00	50.82	O
ATOM	5330	CB	SER	B	304	9.607	44.833	89.306	1.00	49.11	C
ATOM	5331	OG	SER	B	304	9.765	46.233	89.168	1.00	52.40	O
ATOM	5332	N	PRO	B	305	10.304	42.268	87.446	1.00	53.50	N
ATOM	5333	CA	PRO	B	305	10.138	41.632	86.136	1.00	55.43	C
ATOM	5334	C	PRO	B	305	8.950	42.309	85.463	1.00	53.13	C
ATOM	5335	O	PRO	B	305	8.975	42.630	84.266	1.00	41.46	O
ATOM	5336	CB	PRO	B	305	9.826	40.178	86.489	1.00	56.22	C
ATOM	5337	CG	PRO	B	305	10.401	40.014	87.847	1.00	60.62	C
ATOM	5338	CD	PRO	B	305	10.038	41.305	88.521	1.00	58.74	C
ATOM	5339	N	GLN	B	306	7.909	42.514	86.268	1.00	57.38	N
ATOM	5340	CA	GLN	B	306	6.691	43.154	85.816	1.00	63.53	C
ATOM	5341	C	GLN	B	306	7.023	44.523	85.238	1.00	62.83	C
ATOM	5342	O	GLN	B	306	6.424	44.946	84.258	1.00	64.21	O
ATOM	5343	CB	GLN	B	306	5.703	43.282	86.983	1.00	70.70	C
ATOM	5344	CG	GLN	B	306	6.277	43.885	88.256	1.00	88.06	C
ATOM	5345	CD	GLN	B	306	5.228	44.056	89.338	1.00	98.86	C
ATOM	5346	OE1	GLN	B	306	4.598	43.089	89.765	1.00	108.90	O
ATOM	5347	NE2	GLN	B	306	5.032	45.293	89.788	1.00	100.01	N
ATOM	5348	N	ALA	B	307	7.992	45.206	85.838	1.00	60.27	N
ATOM	5349	CA	ALA	B	307	8.400	46.525	85.368	1.00	52.67	C
ATOM	5350	C	ALA	B	307	9.104	46.388	84.027	1.00	49.37	C
ATOM	5351	O	ALA	B	307	8.612	46.870	83.009	1.00	47.80	O
ATOM	5352	CB	ALA	B	307	9.328	47.179	86.376	1.00	50.06	C
ATOM	5353	N	LYS	B	308	10.260	45.729	84.041	1.00	48.26	N
ATOM	5354	CA	LYS	B	308	11.056	45.509	82.831	1.00	49.41	C
ATOM	5355	C	LYS	B	308	10.185	45.131	81.636	1.00	47.85	C
ATOM	5356	O	LYS	B	308	10.506	45.464	80.492	1.00	42.82	O
ATOM	5357	CB	LYS	B	308	12.075	44.388	83.059	1.00	51.52	C
ATOM	5358	CG	LYS	B	308	12.844	44.012	81.802	1.00	58.09	C



ATOM	5359	CD	LYS	B	308	13.486	42.648	81.907	1.00	65.32	C
ATOM	5360	CE	LYS	B	308	12.437	41.566	82.032	1.00	72.87	C
ATOM	5361	NZ	LYS	B	308	13.054	40.221	81.974	1.00	73.72	N
ATOM	5362	N	ALA	B	309	9.099	44.414	81.910	1.00	46.79	N
ATOM	5363	CA	ALA	B	309	8.184	43.986	80.864	1.00	43.70	C
ATOM	5364	C	ALA	B	309	7.609	45.208	80.176	1.00	39.92	C
ATOM	5365	O	ALA	B	309	7.671	45.351	78.952	1.00	40.53	O
ATOM	5366	CB	ALA	B	309	7.071	43.154	81.461	1.00	45.68	C
ATOM	5367	N	LEU	B	310	7.045	46.091	80.986	1.00	36.87	N
ATOM	5368	CA	LEU	B	310	6.464	47.325	80.491	1.00	32.15	C
ATOM	5369	C	LEU	B	310	7.526	48.151	79.771	1.00	30.53	C
ATOM	5370	O	LEU	B	310	7.392	48.442	78.596	1.00	27.92	O
ATOM	5371	CB	LEU	B	310	5.892	48.124	81.661	1.00	33.14	C
ATOM	5372	CG	LEU	B	310	5.357	49.532	81.400	1.00	40.85	C
ATOM	5373	CD1	LEU	B	310	4.349	49.513	80.252	1.00	52.52	C
ATOM	5374	CD2	LEU	B	310	4.723	50.071	82.693	1.00	50.61	C
ATOM	5375	N	LEU	B	311	8.584	48.523	80.482	1.00	26.12	N
ATOM	5376	CA	LEU	B	311	9.671	49.308	79.910	1.00	25.13	C
ATOM	5377	C	LEU	B	311	10.113	48.841	78.515	1.00	32.11	C
ATOM	5378	O	LEU	B	311	10.567	49.649	77.700	1.00	33.23	O
ATOM	5379	CB	LEU	B	311	10.865	49.280	80.864	1.00	12.06	C
ATOM	5380	CG	LEU	B	311	10.705	50.239	82.036	1.00	26.57	C
ATOM	5381	CD1	LEU	B	311	11.473	49.752	83.244	1.00	31.27	C
ATOM	5382	CD2	LEU	B	311	11.182	51.614	81.598	1.00	17.17	C
ATOM	5383	N	GLN	B	312	9.972	47.544	78.239	1.00	36.20	N
ATOM	5384	CA	GLN	B	312	10.383	46.972	76.958	1.00	36.10	C
ATOM	5385	C	GLN	B	312	9.260	46.597	76.002	1.00	42.91	C
ATOM	5386	O	GLN	B	312	9.535	46.061	74.935	1.00	46.16	O
ATOM	5387	CB	GLN	B	312	11.243	45.731	77.198	1.00	34.90	C
ATOM	5388	CG	GLN	B	312	12.474	45.966	78.052	1.00	43.65	C
ATOM	5389	CD	GLN	B	312	13.431	44.787	78.039	1.00	45.97	C
ATOM	5390	OE1	GLN	B	312	13.015	43.641	78.168	1.00	51.35	O
ATOM	5391	NE2	GLN	B	312	14.722	45.066	77.892	1.00	42.69	N
ATOM	5392	N	ASP	B	313	8.008	46.870	76.359	1.00	45.00	N
ATOM	5393	CA	ASP	B	313	6.892	46.527	75.474	1.00	51.81	C
ATOM	5394	C	ASP	B	313	7.108	47.009	74.025	1.00	53.55	C
ATOM	5395	O	ASP	B	313	6.974	48.202	73.722	1.00	49.29	O
ATOM	5396	CB	ASP	B	313	5.576	47.103	76.005	1.00	54.01	C
ATOM	5397	CG	ASP	B	313	4.361	46.603	75.220	1.00	60.77	C
ATOM	5398	OD1	ASP	B	313	4.414	46.610	73.961	1.00	64.06	O
ATOM	5399	OD2	ASP	B	313	3.353	46.215	75.857	1.00	53.70	O
ATOM	5400	N	LYS	B	314	7.416	46.062	73.139	1.00	57.01	N
ATOM	5401	CA	LYS	B	314	7.681	46.344	71.730	1.00	61.78	C
ATOM	5402	C	LYS	B	314	6.675	47.266	71.048	1.00	58.40	C
ATOM	5403	O	LYS	B	314	7.058	48.159	70.294	1.00	60.17	O
ATOM	5404	CB	LYS	B	314	7.740	45.036	70.934	1.00	76.80	C
ATOM	5405	CG	LYS	B	314	8.778	44.038	71.422	1.00	102.87	C
ATOM	5406	CD	LYS	B	314	8.732	42.756	70.587	1.00	117.39	C
ATOM	5407	CE	LYS	B	314	9.822	41.776	71.005	1.00	124.70	C
ATOM	5408	NZ	LYS	B	314	9.841	40.579	70.115	1.00	132.68	N
ATOM	5409	N	ASP	B	315	5.392	47.032	71.301	1.00	56.81	N
ATOM	5410	CA	ASP	B	315	4.317	47.810	70.687	1.00	50.96	C
ATOM	5411	C	ASP	B	315	4.255	49.248	71.169	1.00	46.39	C
ATOM	5412	O	ASP	B	315	3.860	50.143	70.412	1.00	41.44	O
ATOM	5413	CB	ASP	B	315	2.976	47.135	70.961	1.00	54.17	C
ATOM	5414	CG	ASP	B	315	3.016	45.649	70.699	1.00	60.24	C
ATOM	5415	OD1	ASP	B	315	3.030	45.253	69.513	1.00	57.63	O
ATOM	5416	OD2	ASP	B	315	3.041	44.880	71.687	1.00	62.09	O
ATOM	5417	N	VAL	B	316	4.634	49.469	72.428	1.00	42.81	N
ATOM	5418	CA	VAL	B	316	4.601	50.812	72.994	1.00	41.35	C
ATOM	5419	C	VAL	B	316	5.838	51.596	72.578	1.00	49.57	C
ATOM	5420	O	VAL	B	316	5.753	52.778	72.234	1.00	56.13	O
ATOM	5421	CB	VAL	B	316	4.488	50.759	74.535	1.00	30.91	C
ATOM	5422	CG1	VAL	B	316	4.408	52.170	75.117	1.00	37.66	C
ATOM	5423	CG2	VAL	B	316	3.241	49.990	74.924	1.00	38.09	C
ATOM	5424	N	ILE	B	317	6.988	50.935	72.598	1.00	52.84	N
ATOM	5425	CA	ILE	B	317	8.221	51.590	72.189	1.00	50.65	C
ATOM	5426	C	ILE	B	317	8.046	52.038	70.747	1.00	51.01	C
ATOM	5427	O	ILE	B	317	8.483	53.115	70.355	1.00	49.49	O
ATOM	5428	CB	ILE	B	317	9.403	50.628	72.232	1.00	47.80	C
ATOM	5429	CG1	ILE	B	317	9.421	49.888	73.568	1.00	45.69	C
ATOM	5430	CG2	ILE	B	317	10.695	51.401	72.016	1.00	49.27	C
ATOM	5431	CD1	ILE	B	317	10.497	48.824	73.658	1.00	57.21	C
ATOM	5432	N	ALA	B	318	7.396	51.184	69.968	1.00	47.41	N
ATOM	5433	CA	ALA	B	318	7.139	51.453	68.569	1.00	47.73	C
ATOM	5434	C	ALA	B	318	6.400	52.765	68.443	1.00	45.10	C
ATOM	5435	O	ALA	B	318	6.787	53.641	67.680	1.00	51.89	O
ATOM	5436	CB	ALA	B	318	6.315	50.331	67.965	1.00	49.34	C
ATOM	5437	N	ILE	B	319	5.327	52.910	69.195	1.00	38.46	N

ATOM	5438	CA	ILE	B	319	4.574	54.146	69.123	1.00	35.63	C
ATOM	5439	C	ILE	B	319	5.474	55.344	69.390	1.00	36.82	C
ATOM	5440	O	ILE	B	319	5.567	56.249	68.574	1.00	41.34	O
ATOM	5441	CB	ILE	B	319	3.407	54.128	70.118	1.00	33.97	C
ATOM	5442	CG1	ILE	B	319	2.335	53.165	69.607	1.00	42.09	C
ATOM	5443	CG2	ILE	B	319	2.837	55.531	70.302	1.00	23.48	C
ATOM	5444	CD1	ILE	B	319	1.200	52.970	70.559	1.00	54.00	C
ATOM	5445	N	ASN	B	320	6.149	55.349	70.528	1.00	35.81	N
ATOM	5446	CA	ASN	B	320	7.035	56.459	70.859	1.00	36.40	C
ATOM	5447	C	ASN	B	320	8.121	56.649	69.800	1.00	35.02	C
ATOM	5448	O	ASN	B	320	8.548	57.777	69.534	1.00	38.20	O
ATOM	5449	CB	ASN	B	320	7.675	56.222	72.232	1.00	43.77	C
ATOM	5450	CG	ASN	B	320	8.791	57.189	72.527	1.00	50.25	C
ATOM	5451	OD1	ASN	B	320	9.820	57.183	71.856	1.00	55.90	O
ATOM	5452	ND2	ASN	B	320	8.595	58.031	73.536	1.00	51.06	N
ATOM	5453	N	GLN	B	321	8.553	55.539	69.199	1.00	37.76	N
ATOM	5454	CA	GLN	B	321	9.605	55.542	68.176	1.00	49.96	C
ATOM	5455	C	GLN	B	321	9.075	55.766	66.768	1.00	57.68	C
ATOM	5456	O	GLN	B	321	9.796	55.571	65.785	1.00	59.07	O
ATOM	5457	CB	GLN	B	321	10.381	54.217	68.206	1.00	44.90	C
ATOM	5458	CG	GLN	B	321	11.433	54.121	69.288	1.00	46.70	C
ATOM	5459	CD	GLN	B	321	12.465	55.214	69.156	1.00	47.84	C
ATOM	5460	OE1	GLN	B	321	13.001	55.445	68.075	1.00	39.88	O
ATOM	5461	NE2	GLN	B	321	12.748	55.898	70.255	1.00	41.72	N
ATOM	5462	N	ASP	B	322	7.811	56.163	66.677	1.00	62.92	N
ATOM	5463	CA	ASP	B	322	7.179	56.415	65.388	1.00	60.53	C
ATOM	5464	C	ASP	B	322	8.128	57.252	64.543	1.00	54.21	C
ATOM	5465	O	ASP	B	322	8.665	58.258	65.007	1.00	50.45	O
ATOM	5466	CB	ASP	B	322	5.846	57.142	65.592	1.00	63.03	C
ATOM	5467	CG	ASP	B	322	5.023	57.222	64.330	1.00	60.44	C
ATOM	5468	OD1	ASP	B	322	4.739	56.161	63.729	1.00	51.90	O
ATOM	5469	OD2	ASP	B	322	4.652	58.351	63.954	1.00	56.64	O
ATOM	5470	N	PRO	B	323	8.340	56.844	63.287	1.00	48.81	N
ATOM	5471	CA	PRO	B	323	9.227	57.517	62.336	1.00	49.20	C
ATOM	5472	C	PRO	B	323	8.723	58.889	61.960	1.00	49.78	C
ATOM	5473	O	PRO	B	323	9.507	59.781	61.661	1.00	50.30	O
ATOM	5474	CB	PRO	B	323	9.210	56.579	61.147	1.00	49.51	C
ATOM	5475	CG	PRO	B	323	7.765	56.174	61.116	1.00	54.97	C
ATOM	5476	CD	PRO	B	323	7.485	55.866	62.586	1.00	50.18	C
ATOM	5477	N	LEU	B	324	7.405	59.036	61.965	1.00	46.95	N
ATOM	5478	CA	LEU	B	324	6.769	60.290	61.619	1.00	46.62	C
ATOM	5479	C	LEU	B	324	7.305	61.438	62.469	1.00	46.44	C
ATOM	5480	O	LEU	B	324	7.764	62.444	61.938	1.00	50.63	O
ATOM	5481	CB	LEU	B	324	5.262	60.179	61.809	1.00	52.20	C
ATOM	5482	CG	LEU	B	324	4.419	60.922	60.775	1.00	54.98	C
ATOM	5483	CD1	LEU	B	324	3.002	61.035	61.284	1.00	53.77	C
ATOM	5484	CD2	LEU	B	324	4.991	62.300	60.518	1.00	54.88	C
ATOM	5485	N	GLY	B	325	7.234	61.302	63.786	1.00	42.83	N
ATOM	5486	CA	GLY	B	325	7.751	62.356	64.633	1.00	49.56	C
ATOM	5487	C	GLY	B	325	6.734	63.435	64.915	1.00	52.99	C
ATOM	5488	O	GLY	B	325	7.074	64.613	65.004	1.00	57.80	O
ATOM	5489	N	LYS	B	326	5.478	63.030	65.051	1.00	51.78	N
ATOM	5490	CA	LYS	B	326	4.399	63.962	65.352	1.00	50.83	C
ATOM	5491	C	LYS	B	326	4.006	63.841	66.836	1.00	47.62	C
ATOM	5492	O	LYS	B	326	3.348	62.879	67.237	1.00	55.21	O
ATOM	5493	CB	LYS	B	326	3.196	63.663	64.450	1.00	60.35	C
ATOM	5494	CG	LYS	B	326	3.429	63.995	62.985	1.00	72.43	C
ATOM	5495	CD	LYS	B	326	3.467	65.503	62.743	1.00	82.46	C
ATOM	5496	CE	LYS	B	326	2.087	66.119	62.908	1.00	86.36	C
ATOM	5497	NZ	LYS	B	326	2.099	67.587	62.667	1.00	88.74	N
ATOM	5498	N	GLN	B	327	4.401	64.821	67.645	1.00	36.75	N
ATOM	5499	CA	GLN	B	327	4.097	64.770	69.068	1.00	33.19	C
ATOM	5500	C	GLN	B	327	2.609	64.823	69.383	1.00	31.89	C
ATOM	5501	O	GLN	B	327	1.871	65.600	68.807	1.00	32.48	O
ATOM	5502	CB	GLN	B	327	4.822	65.895	69.812	1.00	26.14	C
ATOM	5503	CG	GLN	B	327	4.941	65.663	71.317	1.00	19.26	C
ATOM	5504	CD	GLN	B	327	6.152	66.351	71.913	1.00	27.52	C
ATOM	5505	OE1	GLN	B	327	7.291	65.991	71.630	1.00	31.18	O
ATOM	5506	NE2	GLN	B	327	5.910	67.348	72.740	1.00	26.20	N
ATOM	5507	N	GLY	B	328	2.180	63.992	70.323	1.00	30.12	N
ATOM	5508	CA	GLY	B	328	0.779	63.952	70.699	1.00	28.50	C
ATOM	5509	C	GLY	B	328	0.356	65.181	71.464	1.00	30.24	C
ATOM	5510	O	GLY	B	328	1.103	66.158	71.553	1.00	32.72	O
ATOM	5511	N	TYR	B	329	-0.844	65.120	72.028	1.00	29.80	N
ATOM	5512	CA	TYR	B	329	-1.385	66.241	72.777	1.00	32.42	C
ATOM	5513	C	TYR	B	329	-2.696	65.882	73.453	1.00	30.05	C
ATOM	5514	O	TYR	B	329	-3.376	64.937	73.050	1.00	34.49	O
ATOM	5515	CB	TYR	B	329	-1.622	67.413	71.832	1.00	43.23	C
ATOM	5516	CG	TYR	B	329	-2.507	67.045	70.657	1.00	50.66	C

ATOM	5517	CD1	TYR	B	329	-3.876	66.840	70.820	1.00	57.72	C
ATOM	5518	CD2	TYR	B	329	-1.964	66.858	69.388	1.00	49.27	C
ATOM	5519	CE1	TYR	B	329	-4.674	66.455	69.746	1.00	56.30	C
ATOM	5520	CE2	TYR	B	329	-2.755	66.473	68.312	1.00	48.22	C
ATOM	5521	CZ	TYR	B	329	-4.102	66.273	68.499	1.00	47.50	C
ATOM	5522	OH	TYR	B	329	-4.874	65.881	67.442	1.00	46.62	O
ATOM	5523	N	GLN	B	330	-3.050	66.655	74.473	1.00	29.84	N
ATOM	5524	CA	GLN	B	330	-4.287	66.438	75.199	1.00	31.22	C
ATOM	5525	C	GLN	B	330	-5.417	66.915	74.316	1.00	33.66	C
ATOM	5526	O	GLN	B	330	-5.362	67.995	73.737	1.00	31.76	O
ATOM	5527	CB	GLN	B	330	-4.286	67.234	76.497	1.00	34.22	C
ATOM	5528	CG	GLN	B	330	-5.544	67.098	77.308	1.00	43.47	C
ATOM	5529	CD	GLN	B	330	-5.587	68.102	78.434	1.00	51.85	C
ATOM	5530	OE1	GLN	B	330	-5.650	69.311	78.191	1.00	73.21	O
ATOM	5531	NE2	GLN	B	330	-5.543	67.616	79.679	1.00	29.07	N
ATOM	5532	N	LEU	B	331	-6.447	66.100	74.209	1.00	36.00	N
ATOM	5533	CA	LEU	B	331	-7.577	66.471	73.396	1.00	43.25	C
ATOM	5534	C	LEU	B	331	-8.654	67.027	74.308	1.00	48.53	C
ATOM	5535	O	LEU	B	331	-9.072	68.176	74.162	1.00	64.23	O
ATOM	5536	CB	LEU	B	331	-8.105	65.258	72.629	1.00	47.74	C
ATOM	5537	CG	LEU	B	331	-9.408	65.458	71.851	1.00	62.42	C
ATOM	5538	CD1	LEU	B	331	-9.428	66.831	71.210	1.00	73.58	C
ATOM	5539	CD2	LEU	B	331	-9.544	64.374	70.800	1.00	67.66	C
ATOM	5540	N	ARG	B	332	-9.081	66.216	75.267	1.00	43.33	N
ATOM	5541	CA	ARG	B	332	-10.128	66.621	76.191	1.00	51.00	C
ATOM	5542	C	ARG	B	332	-9.720	66.842	77.651	1.00	54.03	C
ATOM	5543	O	ARG	B	332	-8.658	66.403	78.095	1.00	58.81	O
ATOM	5544	CB	ARG	B	332	-11.264	65.601	76.138	1.00	53.85	C
ATOM	5545	CG	ARG	B	332	-12.221	65.814	74.987	1.00	65.81	C
ATOM	5546	CD	ARG	B	332	-13.250	64.702	74.906	1.00	74.40	C
ATOM	5547	NE	ARG	B	332	-14.437	65.091	74.142	1.00	90.15	N
ATOM	5548	CZ	ARG	B	332	-14.417	65.591	72.908	1.00	93.10	C
ATOM	5549	NH1	ARG	B	332	-13.266	65.773	72.276	1.00	90.50	N
ATOM	5550	NH2	ARG	B	332	-15.554	65.910	72.300	1.00	94.95	N
ATOM	5551	N	GLN	B	333	-10.595	67.538	78.377	1.00	59.53	N
ATOM	5552	CA	GLN	B	333	-10.437	67.859	79.799	1.00	59.64	C
ATOM	5553	C	GLN	B	333	-11.779	67.531	80.427	1.00	60.67	C
ATOM	5554	O	GLN	B	333	-12.652	66.974	79.770	1.00	63.34	O
ATOM	5555	CB	GLN	B	333	-10.172	69.357	79.989	1.00	66.45	C
ATOM	5556	CG	GLN	B	333	-8.737	69.784	79.800	1.00	73.50	C
ATOM	5557	CD	GLN	B	333	-7.953	69.703	81.085	1.00	74.39	C
ATOM	5558	OE1	GLN	B	333	-8.156	68.792	81.885	1.00	68.78	O
ATOM	5559	NE2	GLN	B	333	-7.043	70.651	81.290	1.00	75.58	N
ATOM	5560	N	GLY	B	334	-11.942	67.873	81.697	1.00	61.52	N
ATOM	5561	CA	GLY	B	334	-13.215	67.643	82.362	1.00	64.25	C
ATOM	5562	C	GLY	B	334	-13.545	66.316	83.026	1.00	57.75	C
ATOM	5563	O	GLY	B	334	-13.184	65.241	82.540	1.00	48.01	O
ATOM	5564	N	ASP	B	335	-14.252	66.418	84.151	1.00	55.93	N
ATOM	5565	CA	ASP	B	335	-14.700	65.267	84.935	1.00	56.96	C
ATOM	5566	C	ASP	B	335	-13.594	64.361	85.456	1.00	53.22	C
ATOM	5567	O	ASP	B	335	-13.828	63.188	85.763	1.00	53.10	O
ATOM	5568	CB	ASP	B	335	-15.694	64.435	84.115	1.00	65.57	C
ATOM	5569	CG	ASP	B	335	-16.335	63.330	84.929	1.00	74.34	C
ATOM	5570	OD1	ASP	B	335	-16.702	63.595	86.093	1.00	78.23	O
ATOM	5571	OD2	ASP	B	335	-16.483	62.202	84.409	1.00	77.66	O
ATOM	5572	N	ASN	B	336	-12.395	64.908	85.586	1.00	51.36	N
ATOM	5573	CA	ASN	B	336	-11.283	64.105	86.048	1.00	45.32	C
ATOM	5574	C	ASN	B	336	-11.034	63.039	85.017	1.00	37.63	C
ATOM	5575	O	ASN	B	336	-11.031	61.856	85.321	1.00	34.06	O
ATOM	5576	CB	ASN	B	336	-11.597	63.432	87.384	1.00	50.91	C
ATOM	5577	CG	ASN	B	336	-11.058	64.196	88.555	1.00	58.30	C
ATOM	5578	OD1	ASN	B	336	-10.080	64.937	88.433	1.00	69.08	O
ATOM	5579	ND2	ASN	B	336	-11.680	64.009	89.712	1.00	58.57	N
ATOM	5580	N	PHE	B	337	-10.861	63.470	83.783	1.00	31.44	N
ATOM	5581	CA	PHE	B	337	-10.581	62.562	82.700	1.00	31.17	C
ATOM	5582	C	PHE	B	337	-9.765	63.351	81.705	1.00	32.33	C
ATOM	5583	O	PHE	B	337	-10.078	64.513	81.435	1.00	36.66	O
ATOM	5584	CB	PHE	B	337	-11.876	62.075	82.045	1.00	32.86	C
ATOM	5585	CG	PHE	B	337	-12.306	60.699	82.488	1.00	39.46	C
ATOM	5586	CD1	PHE	B	337	-13.653	60.415	82.718	1.00	49.81	C
ATOM	5587	CD2	PHE	B	337	-11.371	59.683	82.661	1.00	47.92	C
ATOM	5588	CE1	PHE	B	337	-14.063	59.141	83.114	1.00	54.96	C
ATOM	5589	CE2	PHE	B	337	-11.769	58.407	83.056	1.00	63.20	C
ATOM	5590	CZ	PHE	B	337	-13.121	58.138	83.283	1.00	65.67	C
ATOM	5591	N	GLU	B	338	-8.703	62.737	81.189	1.00	32.09	N
ATOM	5592	CA	GLU	B	338	-7.849	63.373	80.189	1.00	33.18	C
ATOM	5593	C	GLU	B	338	-7.723	62.467	78.965	1.00	33.15	C
ATOM	5594	O	GLU	B	338	-7.452	61.275	79.090	1.00	40.19	O
ATOM	5595	CB	GLU	B	338	-6.449	63.648	80.748	1.00	25.42	C

ATOM	5596	CG	GLU	B	338	-6.311	64.927	81.545	1.00	33.52	C
ATOM	5597	CD	GLU	B	338	-4.855	65.332	81.751	1.00	38.56	C
ATOM	5598	OE1	GLU	B	338	-4.182	65.626	80.735	1.00	33.53	O
ATOM	5599	OE2	GLU	B	338	-4.387	65.354	82.920	1.00	39.80	O
ATOM	5600	N	VAL	B	339	-7.924	63.028	77.781	1.00	26.69	N
ATOM	5601	CA	VAL	B	339	-7.797	62.236	76.571	1.00	13.92	C
ATOM	5602	C	VAL	B	339	-6.660	62.746	75.705	1.00	13.55	C
ATOM	5603	O	VAL	B	339	-6.734	63.847	75.155	1.00	17.78	O
ATOM	5604	CB	VAL	B	339	-9.070	62.257	75.715	1.00	13.19	C
ATOM	5605	CG1	VAL	B	339	-8.781	61.562	74.390	1.00	3.31	C
ATOM	5606	CG2	VAL	B	339	-10.218	61.564	76.451	1.00	3.31	C
ATOM	5607	N	TRP	B	340	-5.611	61.937	75.590	1.00	9.29	N
ATOM	5608	CA	TRP	B	340	-4.457	62.302	74.783	1.00	14.13	C
ATOM	5609	C	TRP	B	340	-4.443	61.493	73.494	1.00	17.31	C
ATOM	5610	O	TRP	B	340	-5.117	60.465	73.402	1.00	26.52	O
ATOM	5611	CB	TRP	B	340	-3.166	62.065	75.574	1.00	16.12	C
ATOM	5612	CG	TRP	B	340	-3.007	63.005	76.719	1.00	16.94	C
ATOM	5613	CD1	TRP	B	340	-3.852	63.151	77.778	1.00	21.92	C
ATOM	5614	CD2	TRP	B	340	-1.962	63.968	76.902	1.00	23.88	C
ATOM	5615	NE1	TRP	B	340	-3.402	64.153	78.613	1.00	29.39	N
ATOM	5616	CE2	TRP	B	340	-2.245	64.671	78.096	1.00	31.49	C
ATOM	5617	CE3	TRP	B	340	-0.815	64.307	76.174	1.00	28.70	C
ATOM	5618	CZ2	TRP	B	340	-1.427	65.690	78.574	1.00	40.20	C
ATOM	5619	CZ3	TRP	B	340	-0.004	65.319	76.648	1.00	27.49	C
ATOM	5620	CH2	TRP	B	340	-0.315	65.999	77.838	1.00	40.53	C
ATOM	5621	N	GLU	B	341	-3.685	61.970	72.506	1.00	9.67	N
ATOM	5622	CA	GLU	B	341	-3.574	61.281	71.229	1.00	7.62	C
ATOM	5623	C	GLU	B	341	-2.411	61.810	70.387	1.00	13.01	C
ATOM	5624	O	GLU	B	341	-2.079	62.994	70.425	1.00	18.84	O
ATOM	5625	CB	GLU	B	341	-4.876	61.417	70.427	1.00	3.31	C
ATOM	5626	CG	GLU	B	341	-4.949	62.688	69.565	1.00	25.60	C
ATOM	5627	CD	GLU	B	341	-6.299	62.880	68.885	1.00	30.41	C
ATOM	5628	OE1	GLU	B	341	-6.778	61.938	68.223	1.00	27.70	O
ATOM	5629	OE2	GLU	B	341	-6.880	63.980	68.998	1.00	36.12	O
ATOM	5630	N	ARG	B	342	-1.803	60.918	69.620	1.00	15.38	N
ATOM	5631	CA	ARG	B	342	-0.696	61.279	68.759	1.00	21.84	C
ATOM	5632	C	ARG	B	342	-0.915	60.596	67.429	1.00	17.39	C
ATOM	5633	O	ARG	B	342	-1.234	59.408	67.379	1.00	12.91	O
ATOM	5634	CB	ARG	B	342	0.629	60.789	69.341	1.00	26.66	C
ATOM	5635	CG	ARG	B	342	1.797	60.879	68.353	1.00	29.85	C
ATOM	5636	CD	ARG	B	342	2.980	60.020	68.783	1.00	35.01	C
ATOM	5637	NE	ARG	B	342	4.174	60.304	67.997	1.00	42.30	N
ATOM	5638	CZ	ARG	B	342	5.356	59.737	68.209	1.00	48.51	C
ATOM	5639	NH1	ARG	B	342	5.500	58.852	69.181	1.00	43.34	N
ATOM	5640	NH2	ARG	B	342	6.400	60.064	67.461	1.00	53.48	N
ATOM	5641	N	PRO	B	343	-0.785	61.341	66.325	1.00	17.23	N
ATOM	5642	CA	PRO	B	343	-0.985	60.669	65.052	1.00	13.34	C
ATOM	5643	C	PRO	B	343	0.328	59.935	64.777	1.00	19.66	C
ATOM	5644	O	PRO	B	343	1.407	60.426	65.126	1.00	11.42	O
ATOM	5645	CB	PRO	B	343	-1.245	61.832	64.109	1.00	14.10	C
ATOM	5646	CG	PRO	B	343	-0.357	62.887	64.651	1.00	11.87	C
ATOM	5647	CD	PRO	B	343	-0.604	62.791	66.130	1.00	20.84	C
ATOM	5648	N	LEU	B	344	0.233	58.750	64.186	1.00	29.17	N
ATOM	5649	CA	LEU	B	344	1.415	57.953	63.876	1.00	39.10	C
ATOM	5650	C	LEU	B	344	1.607	57.953	62.369	1.00	48.55	C
ATOM	5651	O	LEU	B	344	1.271	58.922	61.706	1.00	56.26	O
ATOM	5652	CB	LEU	B	344	1.214	56.527	64.373	1.00	27.36	C
ATOM	5653	CG	LEU	B	344	0.596	56.546	65.763	1.00	33.56	C
ATOM	5654	CD1	LEU	B	344	0.240	55.146	66.204	1.00	40.45	C
ATOM	5655	CD2	LEU	B	344	1.572	57.209	66.716	1.00	36.36	C
ATOM	5656	N	SER	B	345	2.154	56.870	61.833	1.00	51.42	N
ATOM	5657	CA	SER	B	345	2.366	56.764	60.397	1.00	50.43	C
ATOM	5658	C	SER	B	345	1.310	55.819	59.866	1.00	53.44	C
ATOM	5659	O	SER	B	345	0.777	55.007	60.617	1.00	59.99	O
ATOM	5660	CB	SER	B	345	3.750	56.191	60.099	1.00	49.81	C
ATOM	5661	OG	SER	B	345	4.751	56.898	60.805	1.00	65.14	O
ATOM	5662	N	GLY	B	346	1.001	55.929	58.579	1.00	51.96	N
ATOM	5663	CA	GLY	B	346	0.018	55.047	57.972	1.00	62.14	C
ATOM	5664	C	GLY	B	346	-1.408	55.183	58.462	1.00	66.08	C
ATOM	5665	O	GLY	B	346	-2.109	54.183	58.619	1.00	72.41	O
ATOM	5666	N	LEU	B	347	-1.841	56.416	58.706	1.00	67.58	N
ATOM	5667	CA	LEU	B	347	-3.206	56.680	59.158	1.00	71.85	C
ATOM	5668	C	LEU	B	347	-3.552	56.014	60.484	1.00	70.69	C
ATOM	5669	O	LEU	B	347	-4.725	55.849	60.830	1.00	75.72	O
ATOM	5670	CB	LEU	B	347	-4.205	56.224	58.090	1.00	79.33	C
ATOM	5671	CG	LEU	B	347	-4.052	56.850	56.699	1.00	86.76	C
ATOM	5672	CD1	LEU	B	347	-5.015	56.184	55.726	1.00	94.59	C
ATOM	5673	CD2	LEU	B	347	-4.311	58.350	56.771	1.00	93.49	C
ATOM	5674	N	ALA	B	348	-2.522	55.622	61.221	1.00	64.54	N

ATOM	5675	CA	ALA	B	348	-2.712	54.974	62.508	1.00	55.40	C
ATOM	5676	C	ALA	B	348	-2.570	56.034	63.588	1.00	47.16	C
ATOM	5677	O	ALA	B	348	-1.744	56.943	63.472	1.00	52.56	O
ATOM	5678	CB	ALA	B	348	-1.680	53.882	62.696	1.00	65.49	C
ATOM	5679	N	TRP	B	349	-3.378	55.921	64.635	1.00	33.00	N
ATOM	5680	CA	TRP	B	349	-3.341	56.885	65.724	1.00	29.96	C
ATOM	5681	C	TRP	B	349	-3.239	56.227	67.086	1.00	24.51	C
ATOM	5682	O	TRP	B	349	-3.819	55.166	67.329	1.00	28.15	O
ATOM	5683	CB	TRP	B	349	-4.583	57.764	65.694	1.00	30.99	C
ATOM	5684	CG	TRP	B	349	-4.627	58.696	64.547	1.00	39.58	C
ATOM	5685	CD1	TRP	B	349	-4.546	58.379	63.209	1.00	48.37	C
ATOM	5686	CD2	TRP	B	349	-4.829	60.101	64.614	1.00	39.41	C
ATOM	5687	NEL	TRP	B	349	-4.691	59.510	62.447	1.00	44.17	N
ATOM	5688	CE2	TRP	B	349	-4.869	60.583	63.285	1.00	44.56	C
ATOM	5689	CE3	TRP	B	349	-4.983	61.005	65.664	1.00	48.26	C
ATOM	5690	CZ2	TRP	B	349	-5.065	61.938	62.988	1.00	51.67	C
ATOM	5691	CZ3	TRP	B	349	-5.174	62.342	65.372	1.00	53.35	C
ATOM	5692	CH2	TRP	B	349	-5.214	62.799	64.048	1.00	55.52	C
ATOM	5693	N	ALA	B	350	-2.496	56.874	67.976	1.00	21.97	N
ATOM	5694	CA	ALA	B	350	-2.317	56.361	69.318	1.00	15.04	C
ATOM	5695	C	ALA	B	350	-3.203	57.220	70.204	1.00	13.29	C
ATOM	5696	O	ALA	B	350	-3.326	58.427	69.956	1.00	21.97	O
ATOM	5697	CB	ALA	B	350	-0.859	56.477	69.724	1.00	14.88	C
ATOM	5698	N	VAL	B	351	-3.828	56.615	71.216	1.00	11.43	N
ATOM	5699	CA	VAL	B	351	-4.700	57.377	72.109	1.00	16.42	C
ATOM	5700	C	VAL	B	351	-4.553	57.023	73.587	1.00	14.52	C
ATOM	5701	O	VAL	B	351	-4.475	55.848	73.942	1.00	20.61	O
ATOM	5702	CB	VAL	B	351	-6.187	57.209	71.731	1.00	14.15	C
ATOM	5703	CG1	VAL	B	351	-7.039	58.140	72.591	1.00	18.62	C
ATOM	5704	CG2	VAL	B	351	-6.402	57.518	70.257	1.00	10.92	C
ATOM	5705	N	ALA	B	352	-4.543	58.045	74.442	1.00	7.24	N
ATOM	5706	CA	ALA	B	352	-4.405	57.836	75.878	1.00	12.07	C
ATOM	5707	C	ALA	B	352	-5.681	58.164	76.640	1.00	5.81	C
ATOM	5708	O	ALA	B	352	-6.467	59.021	76.239	1.00	3.31	O
ATOM	5709	CB	ALA	B	352	-3.249	58.667	76.423	1.00	31.41	C
ATOM	5710	N	MET	B	353	-5.871	57.467	77.750	1.00	9.84	N
ATOM	5711	CA	MET	B	353	-7.042	57.658	78.589	1.00	22.44	C
ATOM	5712	C	MET	B	353	-6.618	57.603	80.066	1.00	27.10	C
ATOM	5713	O	MET	B	353	-6.460	56.525	80.650	1.00	32.99	O
ATOM	5714	CB	MET	B	353	-8.077	56.572	78.267	1.00	19.22	C
ATOM	5715	CG	MET	B	353	-9.415	57.108	77.759	1.00	18.91	C
ATOM	5716	SD	MET	B	353	-9.999	56.263	76.279	1.00	26.72	S
ATOM	5717	CE	MET	B	353	-10.279	54.594	76.866	1.00	38.91	C
ATOM	5718	N	ILE	B	354	-6.439	58.783	80.654	1.00	21.63	N
ATOM	5719	CA	ILE	B	354	-6.008	58.920	82.037	1.00	19.84	C
ATOM	5720	C	ILE	B	354	-7.171	59.205	82.975	1.00	20.11	C
ATOM	5721	O	ILE	B	354	-7.959	60.121	82.716	1.00	23.90	O
ATOM	5722	CB	ILE	B	354	-5.036	60.090	82.193	1.00	18.54	C
ATOM	5723	CG1	ILE	B	354	-4.079	60.144	81.012	1.00	20.37	C
ATOM	5724	CG2	ILE	B	354	-4.258	59.929	83.481	1.00	26.13	C
ATOM	5725	CD1	ILE	B	354	-3.386	61.474	80.867	1.00	37.14	C
ATOM	5726	N	ASN	B	355	-7.276	58.431	84.056	1.00	23.98	N
ATOM	5727	CA	ASN	B	355	-8.324	58.649	85.041	1.00	28.05	C
ATOM	5728	C	ASN	B	355	-7.701	59.455	86.179	1.00	25.20	C
ATOM	5729	O	ASN	B	355	-7.084	58.905	87.080	1.00	25.36	O
ATOM	5730	CB	ASN	B	355	-8.877	57.308	85.545	1.00	22.56	C
ATOM	5731	CG	ASN	B	355	-9.823	57.466	86.735	1.00	21.05	C
ATOM	5732	OD1	ASN	B	355	-10.566	58.445	86.849	1.00	32.29	O
ATOM	5733	ND2	ASN	B	355	-9.803	56.487	87.620	1.00	17.99	N
ATOM	5734	N	ARG	B	356	-7.841	60.770	86.115	1.00	20.51	N
ATOM	5735	CA	ARG	B	356	-7.279	61.627	87.132	1.00	31.23	C
ATOM	5736	C	ARG	B	356	-8.053	61.623	88.446	1.00	35.46	C
ATOM	5737	O	ARG	B	356	-7.897	62.550	89.260	1.00	46.20	O
ATOM	5738	CB	ARG	B	356	-7.169	63.055	86.612	1.00	38.86	C
ATOM	5739	CG	ARG	B	356	-6.047	63.244	85.616	1.00	43.53	C
ATOM	5740	CD	ARG	B	356	-4.692	62.814	86.195	1.00	50.19	C
ATOM	5741	NE	ARG	B	356	-4.092	63.775	87.134	1.00	59.43	N
ATOM	5742	CZ	ARG	B	356	-3.703	65.010	86.815	1.00	63.12	C
ATOM	5743	NH1	ARG	B	356	-3.850	65.459	85.575	1.00	65.44	N
ATOM	5744	NH2	ARG	B	356	-3.147	65.793	87.730	1.00	62.05	N
ATOM	5745	N	GLN	B	357	-8.870	60.592	88.673	1.00	28.87	N
ATOM	5746	CA	GLN	B	357	-9.633	60.512	89.928	1.00	33.47	C
ATOM	5747	C	GLN	B	357	-8.962	59.676	91.039	1.00	30.43	C
ATOM	5748	O	GLN	B	357	-9.178	58.469	91.159	1.00	36.76	O
ATOM	5749	CB	GLN	B	357	-11.035	59.986	89.645	1.00	40.97	C
ATOM	5750	CG	GLN	B	357	-11.891	59.925	90.876	1.00	54.27	C
ATOM	5751	CD	GLN	B	357	-13.338	60.217	90.596	1.00	62.67	C
ATOM	5752	OE1	GLN	B	357	-13.673	61.300	90.143	1.00	69.07	O
ATOM	5753	NE2	GLN	B	357	-14.205	59.251	90.854	1.00	65.72	N

ATOM	5754	N	GLU	B	358	-8.155	60.350	91.849	1.00	26.80	N
ATOM	5755	CA	GLU	B	358	-7.399	59.741	92.948	1.00	32.29	C
ATOM	5756	C	GLU	B	358	-8.125	58.769	93.898	1.00	28.60	C
ATOM	5757	O	GLU	B	358	-7.482	57.963	94.573	1.00	30.41	O
ATOM	5758	CB	GLU	B	358	-6.779	60.857	93.797	1.00	43.79	C
ATOM	5759	CG	GLU	B	358	-5.919	61.873	93.036	1.00	48.64	C
ATOM	5760	CD	GLU	B	358	-4.510	61.379	92.749	1.00	44.93	C
ATOM	5761	OE1	GLU	B	358	-3.894	60.773	93.649	1.00	42.30	O
ATOM	5762	OE2	GLU	B	358	-4.012	61.616	91.629	1.00	40.88	O
ATOM	5763	N	ILE	B	359	-9.448	58.848	93.968	1.00	27.88	N
ATOM	5764	CA	ILE	B	359	-10.202	57.989	94.875	1.00	34.30	C
ATOM	5765	C	ILE	B	359	-11.295	57.155	94.204	1.00	34.85	C
ATOM	5766	O	ILE	B	359	-11.694	57.430	93.082	1.00	37.79	O
ATOM	5767	CB	ILE	B	359	-10.827	58.840	96.002	1.00	39.33	C
ATOM	5768	CG1	ILE	B	359	-11.420	57.935	97.086	1.00	31.29	C
ATOM	5769	CG2	ILE	B	359	-11.877	59.774	95.420	1.00	43.50	C
ATOM	5770	CD1	ILE	B	359	-11.978	58.692	98.238	1.00	40.02	C
ATOM	5771	N	GLY	B	360	-11.764	56.123	94.897	1.00	39.25	N
ATOM	5772	CA	GLY	B	360	-12.804	55.260	94.359	1.00	44.05	C
ATOM	5773	C	GLY	B	360	-12.265	54.016	93.671	1.00	42.72	C
ATOM	5774	O	GLY	B	360	-11.394	53.316	94.196	1.00	39.94	O
ATOM	5775	N	GLY	B	361	-12.795	53.733	92.488	1.00	46.69	N
ATOM	5776	CA	GLY	B	361	-12.347	52.574	91.742	1.00	49.53	C
ATOM	5777	C	GLY	B	361	-12.208	52.907	90.269	1.00	52.50	C
ATOM	5778	O	GLY	B	361	-12.057	54.085	89.923	1.00	62.49	O
ATOM	5779	N	PRO	B	362	-12.257	51.898	89.378	1.00	48.87	N
ATOM	5780	CA	PRO	B	362	-12.136	52.099	87.938	1.00	44.58	C
ATOM	5781	C	PRO	B	362	-13.434	52.656	87.376	1.00	42.25	C
ATOM	5782	O	PRO	B	362	-14.472	52.010	87.469	1.00	43.66	O
ATOM	5783	CB	PRO	B	362	-11.847	50.693	87.425	1.00	43.79	C
ATOM	5784	CG	PRO	B	362	-12.723	49.871	88.278	1.00	41.53	C
ATOM	5785	CD	PRO	B	362	-12.502	50.474	89.669	1.00	48.21	C
ATOM	5786	N	ARG	B	363	-13.371	53.854	86.803	1.00	41.38	N
ATOM	5787	CA	ARG	B	363	-14.551	54.477	86.236	1.00	46.33	C
ATOM	5788	C	ARG	B	363	-14.622	54.077	84.783	1.00	45.49	C
ATOM	5789	O	ARG	B	363	-13.739	53.375	84.299	1.00	51.49	O
ATOM	5790	CB	ARG	B	363	-14.458	55.991	86.422	1.00	54.78	C
ATOM	5791	CG	ARG	B	363	-14.145	56.315	87.872	1.00	63.13	C
ATOM	5792	CD	ARG	B	363	-14.508	57.715	88.292	1.00	53.78	C
ATOM	5793	NE	ARG	B	363	-13.570	58.711	87.803	1.00	41.54	N
ATOM	5794	CZ	ARG	B	363	-13.743	59.405	86.689	1.00	31.79	C
ATOM	5795	NH1	ARG	B	363	-14.818	59.209	85.943	1.00	17.21	N
ATOM	5796	NH2	ARG	B	363	-12.856	60.317	86.336	1.00	43.49	N
ATOM	5797	N	SER	B	364	-15.669	54.479	84.079	1.00	44.85	N
ATOM	5798	CA	SER	B	364	-15.755	54.114	82.672	1.00	49.86	C
ATOM	5799	C	SER	B	364	-15.912	55.371	81.838	1.00	53.15	C
ATOM	5800	O	SER	B	364	-16.669	56.272	82.203	1.00	62.86	O
ATOM	5801	CB	SER	B	364	-16.929	53.162	82.428	1.00	45.42	C
ATOM	5802	OG	SER	B	364	-18.156	53.755	82.803	1.00	51.36	O
ATOM	5803	N	TYR	B	365	-15.166	55.441	80.740	1.00	54.75	N
ATOM	5804	CA	TYR	B	365	-15.238	56.584	79.850	1.00	55.94	C
ATOM	5805	C	TYR	B	365	-15.648	56.093	78.457	1.00	56.83	C
ATOM	5806	O	TYR	B	365	-15.192	55.038	77.988	1.00	58.68	O
ATOM	5807	CB	TYR	B	365	-13.893	57.319	79.786	1.00	55.40	C
ATOM	5808	CG	TYR	B	365	-14.018	58.685	79.157	1.00	60.79	C
ATOM	5809	CD1	TYR	B	365	-14.730	59.699	79.795	1.00	65.68	C
ATOM	5810	CD2	TYR	B	365	-13.479	58.950	77.892	1.00	56.75	C
ATOM	5811	CE1	TYR	B	365	-14.911	60.947	79.190	1.00	65.13	C
ATOM	5812	CE2	TYR	B	365	-13.651	60.194	77.279	1.00	58.15	C
ATOM	5813	CZ	TYR	B	365	-14.370	61.190	77.933	1.00	63.09	C
ATOM	5814	OH	TYR	B	365	-14.553	62.424	77.337	1.00	65.91	O
ATOM	5815	N	THR	B	366	-16.511	56.871	77.807	1.00	55.80	N
ATOM	5816	CA	THR	B	366	-17.028	56.539	76.490	1.00	52.06	C
ATOM	5817	C	THR	B	366	-16.975	57.753	75.584	1.00	49.80	C
ATOM	5818	O	THR	B	366	-17.385	58.838	75.986	1.00	52.16	O
ATOM	5819	CB	THR	B	366	-18.489	56.112	76.597	1.00	53.56	C
ATOM	5820	OG1	THR	B	366	-19.228	57.135	77.280	1.00	58.14	O
ATOM	5821	CG2	THR	B	366	-18.611	54.836	77.381	1.00	53.03	C
ATOM	5822	N	ILE	B	367	-16.475	57.581	74.364	1.00	46.90	N
ATOM	5823	CA	ILE	B	367	-16.403	58.695	73.406	1.00	53.96	C
ATOM	5824	C	ILE	B	367	-16.819	58.320	71.997	1.00	52.93	C
ATOM	5825	O	ILE	B	367	-16.926	57.139	71.659	1.00	53.28	O
ATOM	5826	CB	ILE	B	367	-14.985	59.305	73.272	1.00	58.74	C
ATOM	5827	CG1	ILE	B	367	-13.924	58.202	73.250	1.00	58.91	C
ATOM	5828	CG2	ILE	B	367	-14.767	60.342	74.351	1.00	63.43	C
ATOM	5829	CD1	ILE	B	367	-13.997	57.279	72.051	1.00	50.07	C
ATOM	5830	N	ALA	B	368	-17.027	59.345	71.173	1.00	59.91	N
ATOM	5831	CA	ALA	B	368	-17.417	59.149	69.781	1.00	62.43	C
ATOM	5832	C	ALA	B	368	-16.222	58.775	68.898	1.00	57.88	C

ATOM	5833	O	ALA	B	368	-15.451	59.640	68.465	1.00	57.96	O
ATOM	5834	CB	ALA	B	368	-18.088	60.410	69.245	1.00	73.79	C
ATOM	5835	N	VAL	B	369	-16.074	57.477	68.662	1.00	51.51	N
ATOM	5836	CA	VAL	B	369	-15.015	56.957	67.826	1.00	49.72	C
ATOM	5837	C	VAL	B	369	-14.660	57.962	66.746	1.00	50.98	C
ATOM	5838	O	VAL	B	369	-13.489	58.237	66.484	1.00	50.73	O
ATOM	5839	CB	VAL	B	369	-15.474	55.652	67.166	1.00	54.09	C
ATOM	5840	CG1	VAL	B	369	-14.505	55.219	66.093	1.00	56.99	C
ATOM	5841	CG2	VAL	B	369	-15.619	54.588	68.218	1.00	61.48	C
ATOM	5842	N	ALA	B	370	-15.692	58.513	66.124	1.00	54.79	N
ATOM	5843	CA	ALA	B	370	-15.525	59.492	65.057	1.00	59.90	C
ATOM	5844	C	ALA	B	370	-14.701	60.706	65.479	1.00	55.69	C
ATOM	5845	O	ALA	B	370	-13.558	60.871	65.058	1.00	59.19	O
ATOM	5846	CB	ALA	B	370	-16.897	59.944	64.563	1.00	69.60	C
ATOM	5847	N	SER	B	371	-15.289	61.548	66.318	1.00	48.90	N
ATOM	5848	CA	SER	B	371	-14.619	62.747	66.783	1.00	48.25	C
ATOM	5849	C	SER	B	371	-13.358	62.423	67.593	1.00	44.02	C
ATOM	5850	O	SER	B	371	-13.095	63.035	68.629	1.00	46.23	O
ATOM	5851	CB	SER	B	371	-15.584	63.599	67.623	1.00	56.08	C
ATOM	5852	OG	SER	B	371	-15.871	62.996	68.880	1.00	58.94	O
ATOM	5853	N	LEU	B	372	-12.582	61.456	67.116	1.00	40.16	N
ATOM	5854	CA	LEU	B	372	-11.341	61.088	67.780	1.00	38.78	C
ATOM	5855	C	LEU	B	372	-10.120	61.503	66.958	1.00	41.62	C
ATOM	5856	O	LEU	B	372	-9.564	62.587	67.158	1.00	47.58	O
ATOM	5857	CB	LEU	B	372	-11.301	59.578	68.039	1.00	37.09	C
ATOM	5858	CG	LEU	B	372	-10.124	59.082	68.900	1.00	30.31	C
ATOM	5859	CD1	LEU	B	372	-10.025	59.910	70.177	1.00	31.09	C
ATOM	5860	CD2	LEU	B	372	-10.307	57.613	69.249	1.00	19.07	C
ATOM	5861	N	GLY	B	373	-9.709	60.637	66.035	1.00	40.17	N
ATOM	5862	CA	GLY	B	373	-8.552	60.924	65.202	1.00	46.24	C
ATOM	5863	C	GLY	B	373	-8.841	62.101	64.298	1.00	49.50	C
ATOM	5864	O	GLY	B	373	-8.789	61.984	63.081	1.00	40.52	O
ATOM	5865	N	LYS	B	374	-9.135	63.243	64.909	1.00	58.63	N
ATOM	5866	CA	LYS	B	374	-9.455	64.466	64.191	1.00	64.48	C
ATOM	5867	C	LYS	B	374	-10.535	64.197	63.172	1.00	66.08	C
ATOM	5868	O	LYS	B	374	-10.728	64.986	62.253	1.00	68.10	O
ATOM	5869	CB	LYS	B	374	-8.209	65.027	63.496	1.00	64.15	C
ATOM	5870	CG	LYS	B	374	-7.864	66.432	63.942	1.00	72.20	C
ATOM	5871	CD	LYS	B	374	-6.431	66.800	63.593	1.00	72.70	C
ATOM	5872	CE	LYS	B	374	-6.034	68.156	64.184	1.00	77.53	C
ATOM	5873	NZ	LYS	B	374	-6.075	68.198	65.684	1.00	72.68	N
ATOM	5874	N	GLY	B	375	-11.233	63.078	63.349	1.00	66.41	N
ATOM	5875	CA	GLY	B	375	-12.292	62.693	62.434	1.00	62.04	C
ATOM	5876	C	GLY	B	375	-11.839	61.672	61.405	1.00	60.69	C
ATOM	5877	O	GLY	B	375	-12.635	60.857	60.940	1.00	61.43	O
ATOM	5878	N	VAL	B	376	-10.555	61.718	61.058	1.00	58.18	N
ATOM	5879	CA	VAL	B	376	-9.959	60.815	60.078	1.00	57.67	C
ATOM	5880	C	VAL	B	376	-9.950	59.361	60.521	1.00	61.90	C
ATOM	5881	O	VAL	B	376	-10.806	58.585	60.107	1.00	71.76	O
ATOM	5882	CB	VAL	B	376	-8.509	61.216	59.756	1.00	51.56	C
ATOM	5883	CG1	VAL	B	376	-7.872	60.178	58.856	1.00	54.68	C
ATOM	5884	CG2	VAL	B	376	-8.488	62.566	59.082	1.00	63.57	C
ATOM	5885	N	ALA	B	377	-8.971	58.989	61.344	1.00	57.39	N
ATOM	5886	CA	ALA	B	377	-8.873	57.621	61.828	1.00	54.98	C
ATOM	5887	C	ALA	B	377	-10.246	57.209	62.316	1.00	57.77	C
ATOM	5888	O	ALA	B	377	-10.799	57.825	63.224	1.00	58.49	O
ATOM	5889	CB	ALA	B	377	-7.871	57.541	62.944	1.00	46.92	C
ATOM	5890	N	CYS	B	378	-10.781	56.166	61.690	1.00	59.13	N
ATOM	5891	CA	CYS	B	378	-12.109	55.624	61.982	1.00	63.50	C
ATOM	5892	C	CYS	B	378	-13.079	55.952	60.868	1.00	66.64	C
ATOM	5893	O	CYS	B	378	-14.303	55.884	61.041	1.00	72.37	O
ATOM	5894	CB	CYS	B	378	-12.660	56.162	63.290	1.00	66.01	C
ATOM	5895	SG	CYS	B	378	-11.718	55.523	64.708	1.00	88.55	S
ATOM	5896	N	ASN	B	379	-12.519	56.313	59.716	1.00	66.49	N
ATOM	5897	CA	ASN	B	379	-13.304	56.641	58.523	1.00	65.90	C
ATOM	5898	C	ASN	B	379	-12.754	55.783	57.384	1.00	64.13	C
ATOM	5899	O	ASN	B	379	-11.690	56.061	56.844	1.00	61.36	O
ATOM	5900	CB	ASN	B	379	-13.142	58.118	58.184	1.00	70.43	C
ATOM	5901	CG	ASN	B	379	-14.141	58.591	57.153	1.00	77.67	C
ATOM	5902	OD1	ASN	B	379	-15.339	58.673	57.422	1.00	83.76	O
ATOM	5903	ND2	ASN	B	379	-13.657	58.888	55.956	1.00	79.95	N
ATOM	5904	N	PRO	B	380	-13.471	54.711	57.023	1.00	67.27	N
ATOM	5905	CA	PRO	B	380	-14.742	54.268	57.607	1.00	73.01	C
ATOM	5906	C	PRO	B	380	-14.578	53.382	58.854	1.00	75.60	C
ATOM	5907	O	PRO	B	380	-15.208	53.604	59.891	1.00	81.41	O
ATOM	5908	CB	PRO	B	380	-15.391	53.513	56.451	1.00	76.77	C
ATOM	5909	CG	PRO	B	380	-14.213	52.835	55.823	1.00	75.92	C
ATOM	5910	CD	PRO	B	380	-13.122	53.883	55.858	1.00	67.18	C
ATOM	5911	N	ALA	B	381	-13.693	52.394	58.742	1.00	72.14	N



ATOM	5912	CA	ALA	B	381	-13.406	51.442	59.818	1.00	70.13	C
ATOM	5913	C	ALA	B	381	-12.163	51.751	60.659	1.00	68.84	C
ATOM	5914	O	ALA	B	381	-11.176	52.278	60.163	1.00	60.19	O
ATOM	5915	CB	ALA	B	381	-13.287	50.038	59.228	1.00	75.02	C
ATOM	5916	N	CYS	B	382	-12.227	51.388	61.936	1.00	71.46	N
ATOM	5917	CA	CYS	B	382	-11.132	51.594	62.870	1.00	71.39	C
ATOM	5918	C	CYS	B	382	-10.856	50.319	63.596	1.00	68.84	C
ATOM	5919	O	CYS	B	382	-11.741	49.779	64.254	1.00	72.06	O
ATOM	5920	CB	CYS	B	382	-11.486	52.640	63.920	1.00	75.13	C
ATOM	5921	SG	CYS	B	382	-10.471	54.142	63.895	1.00	80.32	S
ATOM	5922	N	PHE	B	383	-9.634	49.830	63.498	1.00	63.36	N
ATOM	5923	CA	PHE	B	383	-9.328	48.624	64.232	1.00	61.05	C
ATOM	5924	C	PHE	B	383	-8.533	49.057	65.453	1.00	54.93	C
ATOM	5925	O	PHE	B	383	-7.405	49.531	65.330	1.00	55.67	O
ATOM	5926	CB	PHE	B	383	-8.534	47.636	63.387	1.00	70.41	C
ATOM	5927	CG	PHE	B	383	-8.450	46.264	64.004	1.00	83.99	C
ATOM	5928	CD1	PHE	B	383	-9.587	45.650	64.527	1.00	87.52	C
ATOM	5929	CD2	PHE	B	383	-7.248	45.574	64.036	1.00	96.23	C
ATOM	5930	CE1	PHE	B	383	-9.520	44.380	65.088	1.00	98.04	C
ATOM	5931	CE2	PHE	B	383	-7.168	44.299	64.595	1.00	103.16	C
ATOM	5932	CZ	PHE	B	383	-8.311	43.700	65.113	1.00	103.83	C
ATOM	5933	N	ILE	B	384	-9.141	48.900	66.624	1.00	48.57	N
ATOM	5934	CA	ILE	B	384	-8.516	49.297	67.867	1.00	45.07	C
ATOM	5935	C	ILE	B	384	-8.029	48.124	68.677	1.00	48.37	C
ATOM	5936	O	ILE	B	384	-8.790	47.219	69.009	1.00	51.85	O
ATOM	5937	CB	ILE	B	384	-9.494	50.062	68.742	1.00	48.28	C
ATOM	5938	CG1	ILE	B	384	-10.259	51.056	67.887	1.00	48.39	C
ATOM	5939	CG2	ILE	B	384	-8.747	50.769	69.862	1.00	55.97	C
ATOM	5940	CD1	ILE	B	384	-11.433	51.663	68.581	1.00	53.13	C
ATOM	5941	N	THR	B	385	-6.757	48.152	69.019	1.00	49.48	N
ATOM	5942	CA	THR	B	385	-6.202	47.085	69.807	1.00	48.02	C
ATOM	5943	C	THR	B	385	-5.663	47.726	71.080	1.00	42.47	C
ATOM	5944	O	THR	B	385	-4.704	48.508	71.034	1.00	46.44	O
ATOM	5945	CB	THR	B	385	-5.064	46.374	69.025	1.00	51.77	C
ATOM	5946	OG1	THR	B	385	-3.884	47.189	69.016	1.00	60.29	O
ATOM	5947	CG2	THR	B	385	-5.478	46.134	67.568	1.00	51.29	C
ATOM	5948	N	GLN	B	386	-6.299	47.436	72.214	1.00	33.49	N
ATOM	5949	CA	GLN	B	386	-5.819	48.012	73.468	1.00	27.25	C
ATOM	5950	C	GLN	B	386	-4.364	47.633	73.517	1.00	30.82	C
ATOM	5951	O	GLN	B	386	-4.022	46.471	73.370	1.00	43.33	O
ATOM	5952	CB	GLN	B	386	-6.537	47.442	74.691	1.00	19.21	C
ATOM	5953	CG	GLN	B	386	-6.116	48.141	75.964	1.00	29.27	C
ATOM	5954	CD	GLN	B	386	-6.988	47.796	77.157	1.00	37.90	C
ATOM	5955	OE1	GLN	B	386	-6.554	47.102	78.062	1.00	39.89	O
ATOM	5956	NE2	GLN	B	386	-8.224	48.281	77.158	1.00	34.21	N
ATOM	5957	N	LEU	B	387	-3.495	48.615	73.677	1.00	27.39	N
ATOM	5958	CA	LEU	B	387	-2.080	48.313	73.699	1.00	18.51	C
ATOM	5959	C	LEU	B	387	-1.580	48.409	75.117	1.00	22.23	C
ATOM	5960	O	LEU	B	387	-0.413	48.123	75.387	1.00	28.65	O
ATOM	5961	CB	LEU	B	387	-1.329	49.294	72.796	1.00	14.64	C
ATOM	5962	CG	LEU	B	387	-0.052	48.767	72.147	1.00	20.38	C
ATOM	5963	CD1	LEU	B	387	-0.378	47.537	71.320	1.00	23.24	C
ATOM	5964	CD2	LEU	B	387	0.559	49.836	71.259	1.00	31.00	C
ATOM	5965	N	LEU	B	388	-2.483	48.802	76.019	1.00	21.17	N
ATOM	5966	CA	LEU	B	388	-2.172	48.986	77.446	1.00	19.64	C
ATOM	5967	C	LEU	B	388	-3.451	49.247	78.251	1.00	19.25	C
ATOM	5968	O	LEU	B	388	-4.398	49.874	77.769	1.00	21.14	O
ATOM	5969	CB	LEU	B	388	-1.208	50.163	77.625	1.00	21.16	C
ATOM	5970	CG	LEU	B	388	0.184	49.979	78.220	1.00	17.52	C
ATOM	5971	CD1	LEU	B	388	0.726	48.600	77.929	1.00	12.74	C
ATOM	5972	CD2	LEU	B	388	1.098	51.056	77.638	1.00	21.55	C
ATOM	5973	N	PRO	B	389	-3.468	48.827	79.516	1.00	20.41	N
ATOM	5974	CA	PRO	B	389	-2.386	48.117	80.203	1.00	33.25	C
ATOM	5975	C	PRO	B	389	-2.324	46.606	79.934	1.00	41.99	C
ATOM	5976	O	PRO	B	389	-1.639	45.883	80.649	1.00	48.41	O
ATOM	5977	CB	PRO	B	389	-2.695	48.413	81.657	1.00	35.42	C
ATOM	5978	CG	PRO	B	389	-4.191	48.283	81.687	1.00	28.80	C
ATOM	5979	CD	PRO	B	389	-4.622	49.026	80.413	1.00	19.85	C
ATOM	5980	N	VAL	B	390	-3.007	46.124	78.897	1.00	45.28	N
ATOM	5981	CA	VAL	B	390	-3.011	44.686	78.647	1.00	50.03	C
ATOM	5982	C	VAL	B	390	-3.034	44.223	77.197	1.00	56.62	C
ATOM	5983	O	VAL	B	390	-3.369	43.075	76.904	1.00	61.87	O
ATOM	5984	CB	VAL	B	390	-4.186	44.036	79.370	1.00	48.80	C
ATOM	5985	CG1	VAL	B	390	-4.098	44.301	80.849	1.00	42.23	C
ATOM	5986	CG2	VAL	B	390	-5.479	44.604	78.813	1.00	53.36	C
ATOM	5987	N	LYS	B	391	-2.657	45.098	76.283	1.00	59.77	N
ATOM	5988	CA	LYS	B	391	-2.647	44.723	74.870	1.00	60.79	C
ATOM	5989	C	LYS	B	391	-3.673	43.649	74.510	1.00	56.27	C
ATOM	5990	O	LYS	B	391	-3.330	42.473	74.361	1.00	51.28	O

ATOM	5991	CB	LYS	B	391	-1.251	44.248	74.446	1.00	60.41	C
ATOM	5992	CG	LYS	B	391	-1.102	44.083	72.920	1.00	65.59	C
ATOM	5993	CD	LYS	B	391	0.300	43.695	72.407	1.00	67.80	C
ATOM	5994	CE	LYS	B	391	0.479	43.992	70.897	1.00	68.90	C
ATOM	5995	NZ	LYS	B	391	0.432	42.704	70.094	1.00	67.32	N
ATOM	5996	N	ARG	B	392	-4.931	44.070	74.395	1.00	55.13	N
ATOM	5997	CA	ARG	B	392	-6.023	43.182	74.036	1.00	55.86	C
ATOM	5998	C	ARG	B	392	-6.479	43.580	72.628	1.00	54.10	C
ATOM	5999	O	ARG	B	392	-6.277	44.716	72.191	1.00	54.13	O
ATOM	6000	CB	ARG	B	392	-7.180	43.342	75.023	1.00	64.65	C
ATOM	6001	CG	ARG	B	392	-8.006	42.078	75.224	1.00	78.88	C
ATOM	6002	CD	ARG	B	392	-9.451	42.397	75.614	1.00	87.47	C
ATOM	6003	NE	ARG	B	392	-9.546	43.414	76.664	1.00	98.24	N
ATOM	6004	CZ	ARG	B	392	-9.077	43.272	77.903	1.00	102.06	C
ATOM	6005	NH1	ARG	B	392	-8.475	42.148	78.263	1.00	104.13	N
ATOM	6006	NH2	ARG	B	392	-9.201	44.260	78.784	1.00	102.28	N
ATOM	6007	N	LYS	B	393	-7.122	42.651	71.933	1.00	56.38	N
ATOM	6008	CA	LYS	B	393	-7.587	42.894	70.574	1.00	57.73	C
ATOM	6009	C	LYS	B	393	-9.068	43.246	70.506	1.00	62.23	C
ATOM	6010	O	LYS	B	393	-9.912	42.361	70.385	1.00	70.67	O
ATOM	6011	CB	LYS	B	393	-7.336	41.656	69.717	1.00	60.70	C
ATOM	6012	CG	LYS	B	393	-6.324	41.828	68.591	1.00	64.98	C
ATOM	6013	CD	LYS	B	393	-6.131	40.503	67.865	1.00	69.41	C
ATOM	6014	CE	LYS	B	393	-4.949	40.549	66.911	1.00	66.84	C
ATOM	6015	NZ	LYS	B	393	-4.704	39.218	66.285	1.00	71.48	N
ATOM	6016	N	LEU	B	394	-9.392	44.531	70.581	1.00	59.79	N
ATOM	6017	CA	LEU	B	394	-10.791	44.944	70.499	1.00	57.57	C
ATOM	6018	C	LEU	B	394	-11.208	44.787	69.049	1.00	60.43	C
ATOM	6019	O	LEU	B	394	-10.345	44.726	68.174	1.00	65.60	O
ATOM	6020	CB	LEU	B	394	-10.917	46.388	70.946	1.00	54.96	C
ATOM	6021	CG	LEU	B	394	-10.267	46.558	72.318	1.00	52.67	C
ATOM	6022	CD1	LEU	B	394	-10.265	48.016	72.704	1.00	60.31	C
ATOM	6023	CD2	LEU	B	394	-11.018	45.729	73.341	1.00	64.58	C
ATOM	6024	N	GLY	B	395	-12.511	44.729	68.784	1.00	64.48	N
ATOM	6025	CA	GLY	B	395	-12.971	44.551	67.409	1.00	72.78	C
ATOM	6026	C	GLY	B	395	-12.821	45.719	66.438	1.00	71.45	C
ATOM	6027	O	GLY	B	395	-12.020	46.629	66.660	1.00	75.01	O
ATOM	6028	N	PHE	B	396	-13.578	45.677	65.340	1.00	67.34	N
ATOM	6029	CA	PHE	B	396	-13.554	46.742	64.331	1.00	64.20	C
ATOM	6030	C	PHE	B	396	-14.505	47.844	64.784	1.00	55.21	C
ATOM	6031	O	PHE	B	396	-15.501	47.572	65.441	1.00	57.53	O
ATOM	6032	CB	PHE	B	396	-14.028	46.216	62.968	1.00	82.65	C
ATOM	6033	CG	PHE	B	396	-13.033	45.316	62.265	1.00	102.32	C
ATOM	6034	CD1	PHE	B	396	-12.184	45.818	61.281	1.00	111.78	C
ATOM	6035	CD2	PHE	B	396	-12.960	43.961	62.570	1.00	109.39	C
ATOM	6036	CE1	PHE	B	396	-11.276	44.985	60.615	1.00	115.13	C
ATOM	6037	CE2	PHE	B	396	-12.055	43.121	61.910	1.00	113.01	C
ATOM	6038	CZ	PHE	B	396	-11.216	43.635	60.930	1.00	113.32	C
ATOM	6039	N	TYR	B	397	-14.201	49.085	64.434	1.00	51.42	N
ATOM	6040	CA	TYR	B	397	-15.059	50.198	64.807	1.00	57.23	C
ATOM	6041	C	TYR	B	397	-15.357	51.085	63.607	1.00	61.72	C
ATOM	6042	O	TYR	B	397	-14.452	51.486	62.879	1.00	60.46	O
ATOM	6043	CB	TYR	B	397	-14.412	51.024	65.919	1.00	64.37	C
ATOM	6044	CG	TYR	B	397	-14.472	50.359	67.274	1.00	77.41	C
ATOM	6045	CD1	TYR	B	397	-13.654	49.276	67.584	1.00	86.02	C
ATOM	6046	CD2	TYR	B	397	-15.385	50.790	68.236	1.00	87.56	C
ATOM	6047	CE1	TYR	B	397	-13.746	48.633	68.823	1.00	95.71	C
ATOM	6048	CE2	TYR	B	397	-15.490	50.158	69.478	1.00	92.49	C
ATOM	6049	CZ	TYR	B	397	-14.669	49.078	69.766	1.00	96.36	C
ATOM	6050	OH	TYR	B	397	-14.784	48.436	70.984	1.00	92.61	O
ATOM	6051	N	GLU	B	398	-16.631	51.373	63.375	1.00	67.89	N
ATOM	6052	CA	GLU	B	398	-16.990	52.224	62.253	1.00	76.13	C
ATOM	6053	C	GLU	B	398	-16.839	53.649	62.682	1.00	74.01	C
ATOM	6054	O	GLU	B	398	-16.544	53.937	63.844	1.00	75.69	O
ATOM	6055	CB	GLU	B	398	-18.430	51.980	61.808	1.00	86.18	C
ATOM	6056	CG	GLU	B	398	-18.589	50.683	61.075	1.00	107.33	C
ATOM	6057	CD	GLU	B	398	-17.867	49.567	61.790	1.00	123.23	C
ATOM	6058	OE1	GLU	B	398	-18.252	49.262	62.939	1.00	129.75	O
ATOM	6059	OE2	GLU	B	398	-16.904	49.013	61.217	1.00	128.47	O
ATOM	6060	N	TRP	B	399	-17.030	54.547	61.732	1.00	70.53	N
ATOM	6061	CA	TRP	B	399	-16.924	55.953	62.032	1.00	69.74	C
ATOM	6062	C	TRP	B	399	-17.957	56.198	63.122	1.00	69.71	C
ATOM	6063	O	TRP	B	399	-17.608	56.597	64.233	1.00	70.76	O
ATOM	6064	CB	TRP	B	399	-17.228	56.778	60.783	1.00	68.11	C
ATOM	6065	CG	TRP	B	399	-16.673	58.158	60.844	1.00	69.78	C
ATOM	6066	CD1	TRP	B	399	-15.362	58.525	60.738	1.00	68.46	C
ATOM	6067	CD2	TRP	B	399	-17.410	59.361	61.072	1.00	76.78	C
ATOM	6068	NE1	TRP	B	399	-15.235	59.884	60.888	1.00	71.48	N
ATOM	6069	CE2	TRP	B	399	-16.479	60.423	61.095	1.00	78.32	C

ATOM	6070	CE3	TRP	B	399	-18.772	59.647	61.264	1.00	85.58	C
ATOM	6071	CZ2	TRP	B	399	-16.867	61.755	61.304	1.00	86.28	C
ATOM	6072	CZ3	TRP	B	399	-19.160	60.974	61.473	1.00	89.12	C
ATOM	6073	CH2	TRP	B	399	-18.209	62.009	61.491	1.00	91.47	C
ATOM	6074	N	THR	B	400	-19.222	55.911	62.816	1.00	68.79	N
ATOM	6075	CA	THR	B	400	-20.306	56.105	63.784	1.00	74.00	C
ATOM	6076	C	THR	B	400	-19.941	55.562	65.162	1.00	77.61	C
ATOM	6077	O	THR	B	400	-20.103	56.252	66.173	1.00	85.51	O
ATOM	6078	CB	THR	B	400	-21.608	55.403	63.336	1.00	72.03	C
ATOM	6079	OG1	THR	B	400	-21.284	54.169	62.681	1.00	78.00	O
ATOM	6080	CG2	THR	B	400	-22.412	56.297	62.406	1.00	71.81	C
ATOM	6081	N	SER	B	401	-19.443	54.325	65.169	1.00	75.75	N
ATOM	6082	CA	SER	B	401	-19.037	53.592	66.370	1.00	71.37	C
ATOM	6083	C	SER	B	401	-18.803	54.403	67.649	1.00	64.98	C
ATOM	6084	O	SER	B	401	-18.296	55.530	67.605	1.00	66.87	O
ATOM	6085	CB	SER	B	401	-17.783	52.763	66.064	1.00	79.12	C
ATOM	6086	OG	SER	B	401	-18.066	51.735	65.133	1.00	93.93	O
ATOM	6087	N	ARG	B	402	-19.185	53.814	68.785	1.00	58.91	N
ATOM	6088	CA	ARG	B	402	-19.010	54.440	70.097	1.00	60.47	C
ATOM	6089	C	ARG	B	402	-18.072	53.555	70.926	1.00	60.73	C
ATOM	6090	O	ARG	B	402	-18.393	52.403	71.217	1.00	65.99	O
ATOM	6091	CB	ARG	B	402	-20.356	54.571	70.821	1.00	56.93	C
ATOM	6092	CG	ARG	B	402	-20.735	55.997	71.206	1.00	67.01	C
ATOM	6093	CD	ARG	B	402	-21.916	56.011	72.174	1.00	79.70	C
ATOM	6094	NE	ARG	B	402	-22.307	57.362	72.592	1.00	93.49	N
ATOM	6095	CZ	ARG	B	402	-21.562	58.171	73.345	1.00	97.84	C
ATOM	6096	NH1	ARG	B	402	-20.369	57.780	73.777	1.00	102.38	N
ATOM	6097	NH2	ARG	B	402	-22.012	59.375	73.673	1.00	100.40	N
ATOM	6098	N	LEU	B	403	-16.906	54.083	71.294	1.00	58.80	N
ATOM	6099	CA	LEU	B	403	-15.962	53.308	72.094	1.00	54.80	C
ATOM	6100	C	LEU	B	403	-16.064	53.611	73.580	1.00	58.34	C
ATOM	6101	O	LEU	B	403	-15.994	54.765	74.020	1.00	61.62	O
ATOM	6102	CB	LEU	B	403	-14.519	53.527	71.641	1.00	56.95	C
ATOM	6103	CG	LEU	B	403	-13.565	52.637	72.445	1.00	59.29	C
ATOM	6104	CD1	LEU	B	403	-14.093	51.221	72.409	1.00	66.38	C
ATOM	6105	CD2	LEU	B	403	-12.159	52.689	71.894	1.00	60.54	C
ATOM	6106	N	ARG	B	404	-16.241	52.543	74.343	1.00	61.81	N
ATOM	6107	CA	ARG	B	404	-16.368	52.617	75.787	1.00	64.91	C
ATOM	6108	C	ARG	B	404	-15.286	51.789	76.448	1.00	62.09	C
ATOM	6109	O	ARG	B	404	-14.918	50.715	75.957	1.00	62.39	O
ATOM	6110	CB	ARG	B	404	-17.725	52.077	76.217	1.00	74.76	C
ATOM	6111	CG	ARG	B	404	-17.807	51.740	77.694	1.00	87.75	C
ATOM	6112	CD	ARG	B	404	-19.203	51.278	78.064	1.00	101.27	C
ATOM	6113	NE	ARG	B	404	-19.326	51.032	79.496	1.00	111.43	N
ATOM	6114	CZ	ARG	B	404	-20.483	50.864	80.125	1.00	115.18	C
ATOM	6115	NH1	ARG	B	404	-21.620	50.914	79.442	1.00	121.83	N
ATOM	6116	NH2	ARG	B	404	-20.504	50.658	81.436	1.00	114.89	N
ATOM	6117	N	SER	B	405	-14.790	52.274	77.576	1.00	59.43	N
ATOM	6118	CA	SER	B	405	-13.762	51.544	78.274	1.00	62.10	C
ATOM	6119	C	SER	B	405	-13.633	52.062	79.692	1.00	57.60	C
ATOM	6120	O	SER	B	405	-13.913	53.223	79.965	1.00	63.06	O
ATOM	6121	CB	SER	B	405	-12.436	51.691	77.531	1.00	66.47	C
ATOM	6122	OG	SER	B	405	-11.509	50.688	77.932	1.00	72.72	O
ATOM	6123	N	HIS	B	406	-13.209	51.182	80.591	1.00	49.38	N
ATOM	6124	CA	HIS	B	406	-13.027	51.536	81.983	1.00	43.52	C
ATOM	6125	C	HIS	B	406	-11.541	51.839	82.226	1.00	41.81	C
ATOM	6126	O	HIS	B	406	-10.659	51.210	81.632	1.00	42.20	O
ATOM	6127	CB	HIS	B	406	-13.485	50.386	82.879	1.00	48.35	C
ATOM	6128	CG	HIS	B	406	-14.881	49.923	82.604	1.00	53.45	C
ATOM	6129	ND1	HIS	B	406	-15.880	49.957	83.552	1.00	62.61	N
ATOM	6130	CD2	HIS	B	406	-15.441	49.402	81.488	1.00	60.64	C
ATOM	6131	CE1	HIS	B	406	-16.996	49.478	83.033	1.00	64.26	C
ATOM	6132	NE2	HIS	B	406	-16.756	49.134	81.782	1.00	67.22	N
ATOM	6133	N	ILE	B	407	-11.263	52.797	83.104	1.00	39.08	N
ATOM	6134	CA	ILE	B	407	-9.888	53.193	83.419	1.00	41.63	C
ATOM	6135	C	ILE	B	407	-9.629	53.263	84.934	1.00	43.98	C
ATOM	6136	O	ILE	B	407	-10.368	53.929	85.665	1.00	56.43	O
ATOM	6137	CB	ILE	B	407	-9.602	54.568	82.817	1.00	35.57	C
ATOM	6138	CG1	ILE	B	407	-9.846	54.533	81.314	1.00	21.75	C
ATOM	6139	CG2	ILE	B	407	-8.179	55.007	83.148	1.00	38.47	C
ATOM	6140	CD1	ILE	B	407	-10.134	55.875	80.751	1.00	19.17	C
ATOM	6141	N	ASN	B	408	-8.573	52.591	85.396	1.00	36.98	N
ATOM	6142	CA	ASN	B	408	-8.236	52.579	86.830	1.00	25.77	C
ATOM	6143	C	ASN	B	408	-7.758	53.942	87.340	1.00	17.60	C
ATOM	6144	O	ASN	B	408	-7.226	54.753	86.579	1.00	3.31	O
ATOM	6145	CB	ASN	B	408	-7.142	51.535	87.143	1.00	29.76	C
ATOM	6146	CG	ASN	B	408	-7.573	50.097	86.840	1.00	32.06	C
ATOM	6147	OD1	ASN	B	408	-8.755	49.756	86.900	1.00	45.34	O
ATOM	6148	ND2	ASN	B	408	-6.601	49.243	86.543	1.00	29.00	N

ATOM	6149	N	PRO	B	409	-7.949	54.206	88.638	1.00	14.38	N
ATOM	6150	CA	PRO	B	409	-7.522	55.477	89.225	1.00	29.19	C
ATOM	6151	C	PRO	B	409	-6.031	55.712	88.995	1.00	28.58	C
ATOM	6152	O	PRO	B	409	-5.221	54.817	89.236	1.00	25.09	O
ATOM	6153	CB	PRO	B	409	-7.870	55.303	90.714	1.00	27.72	C
ATOM	6154	CG	PRO	B	409	-9.109	54.488	90.668	1.00	19.87	C
ATOM	6155	CD	PRO	B	409	-8.755	53.431	89.595	1.00	13.43	C
ATOM	6156	N	THR	B	410	-5.682	56.917	88.542	1.00	25.64	N
ATOM	6157	CA	THR	B	410	-4.297	57.314	88.274	1.00	21.41	C
ATOM	6158	C	THR	B	410	-3.670	56.447	87.192	1.00	19.06	C
ATOM	6159	O	THR	B	410	-2.483	56.569	86.894	1.00	20.31	O
ATOM	6160	CB	THR	B	410	-3.390	57.249	89.550	1.00	22.26	O
ATOM	6161	OG1	THR	B	410	-2.837	55.936	89.705	1.00	25.09	O
ATOM	6162	CG2	THR	B	410	-4.193	57.590	90.795	1.00	26.29	C
ATOM	6163	N	GLY	B	411	-4.477	55.568	86.604	1.00	9.30	N
ATOM	6164	CA	GLY	B	411	-3.988	54.698	85.548	1.00	15.00	C
ATOM	6165	C	GLY	B	411	-4.227	55.287	84.159	1.00	20.58	C
ATOM	6166	O	GLY	B	411	-4.689	56.431	84.038	1.00	23.53	O
ATOM	6167	N	THR	B	412	-3.927	54.505	83.114	1.00	26.18	N
ATOM	6168	CA	THR	B	412	-4.098	54.954	81.735	1.00	25.29	C
ATOM	6169	C	THR	B	412	-4.343	53.803	80.769	1.00	28.68	O
ATOM	6170	O	THR	B	412	-3.698	52.764	80.874	1.00	34.15	C
ATOM	6171	CB	THR	B	412	-2.847	55.702	81.244	1.00	18.21	C
ATOM	6172	OG1	THR	B	412	-2.489	56.709	82.196	1.00	11.12	O
ATOM	6173	CG2	THR	B	412	-3.108	56.351	79.892	1.00	23.07	C
ATOM	6174	N	VAL	B	413	-5.280	53.986	79.838	1.00	26.41	N
ATOM	6175	CA	VAL	B	413	-5.567	52.970	78.822	1.00	21.92	C
ATOM	6176	C	VAL	B	413	-5.085	53.513	77.495	1.00	24.79	C
ATOM	6177	O	VAL	B	413	-5.624	54.495	76.985	1.00	27.66	O
ATOM	6178	CB	VAL	B	413	-7.064	52.669	78.687	1.00	21.57	C
ATOM	6179	CG1	VAL	B	413	-7.299	51.808	77.455	1.00	8.29	C
ATOM	6180	CG2	VAL	B	413	-7.567	51.969	79.942	1.00	24.91	C
ATOM	6181	N	LEU	B	414	-4.061	52.871	76.948	1.00	28.47	N
ATOM	6182	CA	LEU	B	414	-3.467	53.271	75.680	1.00	24.92	C
ATOM	6183	C	LEU	B	414	-4.054	52.477	74.534	1.00	18.79	C
ATOM	6184	O	LEU	B	414	-4.067	51.247	74.567	1.00	21.81	O
ATOM	6185	CB	LEU	B	414	-1.965	53.043	75.728	1.00	26.69	C
ATOM	6186	CG	LEU	B	414	-1.217	53.357	74.449	1.00	23.20	C
ATOM	6187	CD1	LEU	B	414	-1.500	54.788	74.061	1.00	18.54	C
ATOM	6188	CD2	LEU	B	414	0.263	53.126	74.666	1.00	23.23	C
ATOM	6189	N	LEU	B	415	-4.537	53.189	73.522	1.00	17.41	N
ATOM	6190	CA	LEU	B	415	-5.126	52.557	72.355	1.00	22.76	C
ATOM	6191	C	LEU	B	415	-4.411	52.913	71.083	1.00	25.05	C
ATOM	6192	O	LEU	B	415	-3.783	53.961	70.989	1.00	34.70	O
ATOM	6193	CB	LEU	B	415	-6.567	52.993	72.210	1.00	26.86	C
ATOM	6194	CG	LEU	B	415	-7.470	52.509	73.323	1.00	31.67	C
ATOM	6195	CD1	LEU	B	415	-8.831	53.093	73.117	1.00	36.91	C
ATOM	6196	CD2	LEU	B	415	-7.524	50.999	73.309	1.00	31.07	C
ATOM	6197	N	GLN	B	416	-4.524	52.034	70.098	1.00	23.81	N
ATOM	6198	CA	GLN	B	416	-3.936	52.272	68.787	1.00	33.37	C
ATOM	6199	C	GLN	B	416	-4.960	51.970	67.718	1.00	36.57	C
ATOM	6200	O	GLN	B	416	-5.472	50.852	67.633	1.00	40.97	O
ATOM	6201	CB	GLN	B	416	-2.725	51.392	68.568	1.00	31.12	C
ATOM	6202	CG	GLN	B	416	-2.138	51.548	67.203	1.00	42.89	C
ATOM	6203	CD	GLN	B	416	-0.975	50.645	66.985	1.00	63.66	C
ATOM	6204	OE1	GLN	B	416	0.082	50.834	67.590	1.00	72.11	O
ATOM	6205	NE2	GLN	B	416	-1.158	49.631	66.134	1.00	73.16	N
ATOM	6206	N	LEU	B	417	-5.250	52.976	66.901	1.00	39.62	N
ATOM	6207	CA	LEU	B	417	-6.230	52.845	65.833	1.00	41.44	C
ATOM	6208	C	LEU	B	417	-5.594	52.788	64.461	1.00	53.96	C
ATOM	6209	O	LEU	B	417	-4.741	53.598	64.117	1.00	54.02	O
ATOM	6210	CB	LEU	B	417	-7.202	54.022	65.860	1.00	26.40	C
ATOM	6211	CG	LEU	B	417	-8.036	54.223	67.120	1.00	15.38	C
ATOM	6212	CD1	LEU	B	417	-7.171	54.382	68.370	1.00	23.14	C
ATOM	6213	CD2	LEU	B	417	-8.879	55.455	66.908	1.00	14.02	C
ATOM	6214	N	GLU	B	418	-5.985	51.810	63.674	1.00	63.47	N
ATOM	6215	CA	GLU	B	418	-5.456	51.767	62.348	1.00	73.65	C
ATOM	6216	C	GLU	B	418	-6.658	51.917	61.447	1.00	76.75	C
ATOM	6217	O	GLU	B	418	-7.775	51.539	61.808	1.00	78.62	O
ATOM	6218	CB	GLU	B	418	-4.722	50.468	62.085	1.00	79.80	C
ATOM	6219	CG	GLU	B	418	-3.697	50.630	60.993	1.00	93.59	C
ATOM	6220	CD	GLU	B	418	-2.521	49.711	61.182	1.00	105.77	C
ATOM	6221	OE1	GLU	B	418	-2.731	48.476	61.225	1.00	116.13	O
ATOM	6222	OE2	GLU	B	418	-1.384	50.223	61.269	1.00	110.78	O
ATOM	6223	N	ASN	B	419	-6.446	52.498	60.279	1.00	76.36	N
ATOM	6224	CA	ASN	B	419	-7.554	52.691	59.373	1.00	77.56	C
ATOM	6225	C	ASN	B	419	-7.653	51.563	58.356	1.00	75.57	C
ATOM	6226	O	ASN	B	419	-6.644	51.082	57.850	1.00	76.41	O
ATOM	6227	CB	ASN	B	419	-7.402	54.019	58.659	1.00	80.92	C

ATOM	6228	CG	ASN	B	419	-8.722	54.563	58.184	1.00	87.29	C
ATOM	6229	OD1	ASN	B	419	-9.483	53.872	57.516	1.00	93.45	O
ATOM	6230	ND2	ASN	B	419	-9.005	55.806	58.529	1.00	90.20	N
ATOM	6231	N	THR	B	420	-8.881	51.135	58.078	1.00	72.97	N
ATOM	6232	CA	THR	B	420	-9.149	50.072	57.109	1.00	71.00	C
ATOM	6233	C	THR	B	420	-10.561	50.193	56.538	1.00	73.41	C
ATOM	6234	O	THR	B	420	-11.200	51.239	56.644	1.00	75.04	O
ATOM	6235	CB	THR	B	420	-9.025	48.685	57.739	1.00	65.75	C
ATOM	6236	OG1	THR	B	420	-9.227	47.685	56.728	1.00	73.99	O
ATOM	6237	CG2	THR	B	420	-10.074	48.511	58.818	1.00	66.26	C
ATOM	6238	N	MET	B	421	-11.049	49.117	55.935	1.00	78.01	N
ATOM	6239	CA	MET	B	421	-12.389	49.129	55.380	1.00	86.83	C
ATOM	6240	C	MET	B	421	-12.964	47.723	55.227	1.00	96.12	C
ATOM	6241	O	MET	B	421	-13.164	47.257	54.108	1.00	104.34	O
ATOM	6242	CB	MET	B	421	-12.382	49.872	54.040	1.00	81.61	C
ATOM	6243	CG	MET	B	421	-11.040	49.817	53.317	1.00	83.65	C
ATOM	6244	SD	MET	B	421	-10.943	50.900	51.858	1.00	91.96	S
ATOM	6245	CE	MET	B	421	-11.074	49.705	50.515	1.00	90.16	C
ATOM	6246	N	GLN	B	422	-13.225	47.055	56.357	1.00	101.21	N
ATOM	6247	CA	GLN	B	422	-13.782	45.697	56.353	1.00	105.85	C
ATOM	6248	C	GLN	B	422	-15.289	45.733	56.144	1.00	105.71	C
ATOM	6249	O	GLN	B	422	-15.948	46.733	56.464	1.00	102.36	O
ATOM	6250	CB	GLN	B	422	-13.464	44.958	57.667	1.00	109.29	C
ATOM	6251	CG	GLN	B	422	-14.665	44.696	58.604	1.00	113.03	C
ATOM	6252	CD	GLN	B	422	-15.131	45.945	59.342	1.00	113.05	C
ATOM	6253	OE1	GLN	B	422	-15.985	45.875	60.229	1.00	112.27	O
ATOM	6254	NE2	GLN	B	422	-14.572	47.095	58.974	1.00	111.06	N
TER	6255		GLN	B	422						

## CARBOHYDRATE CHAIN COORDINATES

Atom				X	Y	Z	OCC	B			
	Type	Resid	#								
HETATM	6256	C1	NAG	C	639	-32.139	70.260	111.421	1.00	93.92	C
HETATM	6257	C2	NAG	C	639	-31.372	70.776	112.654	1.00	94.66	C
HETATM	6258	C3	NAG	C	639	-32.395	71.419	113.614	1.00	105.94	C
HETATM	6259	C4	NAG	C	639	-33.146	72.575	112.930	1.00	114.46	C
HETATM	6260	C5	NAG	C	639	-33.784	72.042	111.627	1.00	107.11	C
HETATM	6261	C6	NAG	C	639	-34.515	73.102	110.785	1.00	97.36	C
HETATM	6262	C7	NAG	C	639	-29.410	69.784	113.650	1.00	76.09	C
HETATM	6263	C8	NAG	C	639	-28.791	68.583	114.346	1.00	73.90	C
HETATM	6264	N2	NAG	C	639	-30.692	69.680	113.316	1.00	82.50	N
HETATM	6265	O3	NAG	C	639	-31.749	71.900	114.788	1.00	109.09	O
HETATM	6266	O4	NAG	C	639	-34.179	73.041	113.838	1.00	133.02	O
HETATM	6267	O5	NAG	C	639	-32.786	71.385	110.776	1.00	102.97	O
HETATM	6268	O6	NAG	C	639	-33.625	73.991	110.106	1.00	77.29	O
HETATM	6269	O7	NAG	C	639	-28.729	70.781	113.413	1.00	70.04	O
HETATM	6270	C1	NAG	C	640	-34.150	74.359	114.302	1.00	153.89	C
HETATM	6271	C2	NAG	C	640	-35.587	74.805	114.601	1.00	166.52	C
HETATM	6272	C3	NAG	C	640	-35.618	76.231	115.204	1.00	170.69	C
HETATM	6273	C4	NAG	C	640	-34.667	76.327	116.408	1.00	168.92	C
HETATM	6274	C5	NAG	C	640	-33.280	75.765	116.018	1.00	161.95	C
HETATM	6275	C6	NAG	C	640	-32.308	75.700	117.183	1.00	160.78	C
HETATM	6276	C7	NAG	C	640	-37.045	73.626	113.082	1.00	184.26	C
HETATM	6277	C8	NAG	C	640	-37.817	73.610	111.757	1.00	186.48	C
HETATM	6278	N2	NAG	C	640	-36.355	74.732	113.369	1.00	177.27	N
HETATM	6279	O3	NAG	C	640	-36.939	76.577	115.610	1.00	176.07	O
HETATM	6280	O4	NAG	C	640	-34.554	77.690	116.847	1.00	170.55	O
HETATM	6281	O5	NAG	C	640	-33.393	74.412	115.512	1.00	154.03	O
HETATM	6282	O6	NAG	C	640	-30.979	75.509	116.704	1.00	154.47	O
HETATM	6283	O7	NAG	C	640	-37.087	72.644	113.846	1.00	186.30	O
HETATM	6284	C1	NAG	D	692	-23.139	49.197	129.143	1.00	48.04	C
HETATM	6285	C2	NAG	D	692	-22.646	47.835	128.624	1.00	53.62	C
HETATM	6286	C3	NAG	D	692	-21.983	46.992	129.733	1.00	58.82	C
HETATM	6287	C4	NAG	D	692	-20.947	47.850	130.489	1.00	55.73	C
HETATM	6288	C5	NAG	D	692	-21.627	49.122	130.984	1.00	52.32	C
HETATM	6289	C6	NAG	D	692	-20.721	50.042	131.773	1.00	52.91	C
HETATM	6290	C7	NAG	D	692	-23.755	46.768	126.787	1.00	55.64	C
HETATM	6291	C8	NAG	D	692	-24.966	46.029	126.241	1.00	65.81	C
HETATM	6292	N2	NAG	D	692	-23.774	47.119	128.066	1.00	53.61	N
HETATM	6293	O3	NAG	D	692	-21.350	45.863	129.141	1.00	57.40	O
HETATM	6294	O4	NAG	D	692	-20.353	47.134	131.595	1.00	60.58	O
HETATM	6295	O5	NAG	D	692	-22.091	49.866	129.852	1.00	43.36	O
HETATM	6296	O6	NAG	D	692	-19.356	49.747	131.529	1.00	68.08	O
HETATM	6297	O7	NAG	D	692	-22.800	47.009	126.053	1.00	56.23	O
HETATM	6298	C1	NAG	D	693	-19.152	46.510	131.295	1.00	73.01	C
HETATM	6299	C2	NAG	D	693	-18.235	46.423	132.534	1.00	75.04	C
HETATM	6300	C3	NAG	D	693	-16.939	45.698	132.133	1.00	84.71	C
HETATM	6301	C4	NAG	D	693	-17.268	44.337	131.492	1.00	101.09	C
HETATM	6302	C5	NAG	D	693	-18.298	44.494	130.357	1.00	103.07	C
HETATM	6303	C6	NAG	D	693	-18.792	43.169	129.810	1.00	113.86	C

HETATM	6304	C7	NAG	D	693	-18.788	48.418	133.800	1.00	79.96	C
HETATM	6305	C8	NAG	D	693	-18.348	49.785	134.293	1.00	84.84	C
HETATM	6306	N2	NAG	D	693	-17.917	47.743	133.052	1.00	74.50	N
HETATM	6307	O3	NAG	D	693	-16.096	45.518	133.268	1.00	68.40	O
HETATM	6308	O4	NAG	D	693	-16.069	43.756	130.948	1.00	125.46	O
HETATM	6309	O5	NAG	D	693	-19.460	45.196	130.824	1.00	83.65	O
HETATM	6310	O6	NAG	D	693	-17.872	42.123	130.080	1.00	132.47	O
HETATM	6311	O7	NAG	D	693	-19.902	47.990	134.095	1.00	69.44	O
HETATM	6312	C1	MAN	D	694	-15.378	42.863	131.757	1.00	140.45	C
HETATM	6313	C2	MAN	D	694	-14.749	41.758	130.880	1.00	146.70	C
HETATM	6314	C3	MAN	D	694	-13.858	40.839	131.720	1.00	151.60	C
HETATM	6315	C4	MAN	D	694	-12.833	41.691	132.472	1.00	151.16	C
HETATM	6316	C5	MAN	D	694	-13.537	42.798	133.296	1.00	151.15	C
HETATM	6317	C6	MAN	D	694	-12.576	43.755	133.981	1.00	159.97	C
HETATM	6318	O2	MAN	D	694	-13.992	42.335	129.829	1.00	145.54	O
HETATM	6319	O3	MAN	D	694	-13.189	39.865	130.891	1.00	156.40	O
HETATM	6320	O4	MAN	D	694	-12.068	40.865	133.333	1.00	152.15	O
HETATM	6321	O5	MAN	D	694	-14.358	43.607	132.435	1.00	142.39	O
HETATM	6322	O6	MAN	D	694	-11.225	43.477	133.559	1.00	177.23	O
HETATM	6323	C1	MAN	D	695	-10.712	44.461	132.700	1.00	187.11	C
HETATM	6324	C2	MAN	D	695	-10.548	43.889	131.286	1.00	193.26	C
HETATM	6325	C3	MAN	D	695	-9.530	42.744	131.302	1.00	195.26	C
HETATM	6326	C4	MAN	D	695	-8.207	43.192	131.937	1.00	194.09	C
HETATM	6327	C5	MAN	D	695	-8.433	43.909	133.278	1.00	190.45	C
HETATM	6328	C6	MAN	D	695	-7.185	44.609	133.750	1.00	188.51	C
HETATM	6329	O2	MAN	D	695	-10.092	44.914	130.416	1.00	198.31	O
HETATM	6330	O3	MAN	D	695	-9.291	42.313	129.973	1.00	198.31	O
HETATM	6331	O4	MAN	D	695	-7.387	42.058	132.152	1.00	194.30	O
HETATM	6332	O5	MAN	D	695	-9.447	44.936	133.148	1.00	188.38	O
HETATM	6333	O6	MAN	D	695	-7.047	45.878	133.118	1.00	184.58	O
HETATM	6334	C1	MAN	D	696	-13.765	38.597	130.905	1.00	160.20	C
HETATM	6335	C2	MAN	D	696	-12.677	37.513	131.050	1.00	162.12	C
HETATM	6336	C3	MAN	D	696	-11.913	37.332	129.740	1.00	161.16	C
HETATM	6337	C4	MAN	D	696	-12.888	37.039	128.611	1.00	159.89	C
HETATM	6338	C5	MAN	D	696	-13.914	38.170	128.510	1.00	158.37	C
HETATM	6339	C6	MAN	D	696	-14.969	37.903	127.452	1.00	154.56	C
HETATM	6340	O2	MAN	D	696	-13.303	36.281	131.399	1.00	165.74	O
HETATM	6341	O3	MAN	D	696	-10.987	36.268	129.885	1.00	161.13	O
HETATM	6342	O4	MAN	D	696	-12.184	36.909	127.386	1.00	155.90	O
HETATM	6343	O5	MAN	D	696	-14.606	38.341	129.770	1.00	160.32	O
HETATM	6344	O6	MAN	D	696	-15.435	36.565	127.516	1.00	146.85	O
HETATM	6345	C1	NAG	E	715	-13.182	66.020	129.888	1.00	120.37	C
HETATM	6346	C2	NAG	E	715	-12.899	67.060	130.965	1.00	123.71	C
HETATM	6347	C3	NAG	E	715	-12.596	66.358	132.294	1.00	133.37	C
HETATM	6348	C4	NAG	E	715	-13.650	65.298	132.649	1.00	139.25	C
HETATM	6349	C5	NAG	E	715	-13.975	64.405	131.442	1.00	137.63	C
HETATM	6350	C6	NAG	E	715	-15.186	63.543	131.714	1.00	140.83	C
HETATM	6351	C7	NAG	E	715	-11.829	69.189	130.601	1.00	109.30	C
HETATM	6352	C8	NAG	E	715	-10.593	69.942	130.149	1.00	108.45	C
HETATM	6353	N2	NAG	E	715	-11.766	67.865	130.552	1.00	113.83	N
HETATM	6354	O3	NAG	E	715	-12.541	67.322	133.330	1.00	132.54	O
HETATM	6355	O4	NAG	E	715	-13.185	64.484	133.758	1.00	146.13	O
HETATM	6356	O5	NAG	E	715	-14.285	65.206	130.280	1.00	127.67	O
HETATM	6357	O6	NAG	E	715	-16.119	64.223	132.547	1.00	146.11	O
HETATM	6358	O7	NAG	E	715	-12.822	69.803	130.991	1.00	107.45	O
HETATM	6359	C1	NAG	E	716	-14.007	64.457	134.873	1.00	153.38	C
HETATM	6360	C2	NAG	E	716	-13.371	63.602	135.988	1.00	156.41	C
HETATM	6361	C3	NAG	E	716	-14.210	63.690	137.263	1.00	160.61	C
HETATM	6362	C4	NAG	E	716	-14.435	65.147	137.669	1.00	163.56	C
HETATM	6363	C5	NAG	E	716	-15.038	65.907	136.472	1.00	158.89	C
HETATM	6364	C6	NAG	E	716	-15.260	67.379	136.718	1.00	156.19	C
HETATM	6365	C7	NAG	E	716	-12.189	61.768	134.965	1.00	152.83	C
HETATM	6366	C8	NAG	E	716	-12.169	60.299	134.580	1.00	150.30	C
HETATM	6367	N2	NAG	E	716	-13.278	62.212	135.582	1.00	154.14	N
HETATM	6368	O3	NAG	E	716	-13.568	62.989	138.314	1.00	162.37	O
HETATM	6369	O4	NAG	E	716	-15.317	65.213	138.816	1.00	173.10	O
HETATM	6370	O5	NAG	E	716	-14.168	65.807	135.320	1.00	155.54	O
HETATM	6371	O6	NAG	E	716	-16.102	67.940	135.721	1.00	150.07	O
HETATM	6372	O7	NAG	E	716	-11.235	62.491	134.683	1.00	152.15	O
HETATM	6373	C1	MAN	E	717	-14.704	65.389	140.058	1.00	179.54	C
HETATM	6374	C2	MAN	E	717	-15.550	66.323	140.967	1.00	179.64	C
HETATM	6375	C3	MAN	E	717	-14.922	66.431	142.375	1.00	179.99	C
HETATM	6376	C4	MAN	E	717	-14.602	65.041	142.953	1.00	181.96	C
HETATM	6377	C5	MAN	E	717	-13.811	64.185	141.935	1.00	181.15	C
HETATM	6378	C6	MAN	E	717	-13.514	62.757	142.404	1.00	176.91	C
HETATM	6379	O2	MAN	E	717	-16.895	65.853	141.057	1.00	178.44	O
HETATM	6380	O3	MAN	E	717	-15.793	67.148	143.255	1.00	174.10	O
HETATM	6381	O4	MAN	E	717	-13.845	65.195	144.149	1.00	184.08	O
HETATM	6382	O5	MAN	E	717	-14.530	64.100	140.676	1.00	182.95	O

HETATM 6383	O6	MAN	E	717	-13.076	61.944	141.331	1.00170.00	O
HETATM 6384	C1	NAG	F	639	32.119	83.029	85.947	1.00126.87	C
HETATM 6385	C2	NAG	F	639	31.123	83.873	85.146	1.00132.58	C
HETATM 6386	C3	NAG	F	639	31.850	85.065	84.522	1.00142.72	C
HETATM 6387	C4	NAG	F	639	32.640	85.843	85.573	1.00144.73	C
HETATM 6388	C5	NAG	F	639	33.477	84.929	86.479	1.00141.68	C
HETATM 6389	C6	NAG	F	639	33.956	85.709	87.677	1.00145.51	C
HETATM 6390	C7	NAG	F	639	29.211	83.100	83.912	1.00114.73	C
HETATM 6391	C8	NAG	F	639	28.655	82.251	82.789	1.00113.10	C
HETATM 6392	N2	NAG	F	639	30.525	83.075	84.096	1.00122.92	N
HETATM 6393	O3	NAG	F	639	30.894	85.933	83.937	1.00153.03	O
HETATM 6394	O4	NAG	F	639	33.530	86.765	84.919	1.00152.34	O
HETATM 6395	O5	NAG	F	639	32.688	83.834	86.990	1.00133.39	O
HETATM 6396	O6	NAG	F	639	33.072	86.838	87.906	1.00154.44	O
HETATM 6397	O7	NAG	F	639	28.449	83.760	84.617	1.00103.75	O
HETATM 6398	C1	NAG	F	640	33.137	88.089	84.918	1.00160.26	C
HETATM 6399	C2	NAG	F	640	34.360	88.991	84.918	1.00165.79	C
HETATM 6400	C3	NAG	F	640	33.874	90.433	84.975	1.00166.89	C
HETATM 6401	C4	NAG	F	640	32.916	90.720	83.827	1.00166.57	C
HETATM 6402	C5	NAG	F	640	31.829	89.650	83.659	1.00162.73	C
HETATM 6403	C6	NAG	F	640	31.206	89.777	82.285	1.00163.21	C
HETATM 6404	C7	NAG	F	640	36.509	88.517	85.907	1.00168.89	C
HETATM 6405	C8	NAG	F	640	37.313	88.220	87.164	1.00167.41	C
HETATM 6406	N2	NAG	F	640	35.201	88.697	86.063	1.00169.98	N
HETATM 6407	O3	NAG	F	640	34.979	91.324	84.909	1.00166.81	O
HETATM 6408	O4	NAG	F	640	32.271	91.975	84.072	1.00172.21	O
HETATM 6409	O5	NAG	F	640	32.379	88.320	83.730	1.00159.82	O
HETATM 6410	O6	NAG	F	640	32.210	89.775	81.279	1.00163.84	O
HETATM 6411	O7	NAG	F	640	37.070	88.569	84.812	1.00166.29	O
HETATM 6412	C1	MAN	F	641	32.546	92.988	83.167	1.00180.23	C
HETATM 6413	C2	MAN	F	641	31.336	93.932	83.144	1.00181.77	C
HETATM 6414	C3	MAN	F	641	31.609	95.378	82.683	1.00183.44	C
HETATM 6415	C4	MAN	F	641	33.058	95.856	82.878	1.00185.67	C
HETATM 6416	C5	MAN	F	641	34.077	94.730	82.765	1.00188.14	C
HETATM 6417	C6	MAN	F	641	35.503	95.137	83.126	1.00190.39	C
HETATM 6418	O2	MAN	F	641	30.757	93.965	84.446	1.00182.75	O
HETATM 6419	O3	MAN	F	641	30.773	96.214	83.495	1.00186.38	O
HETATM 6420	O4	MAN	F	641	33.357	96.858	81.921	1.00182.05	O
HETATM 6421	O5	MAN	F	641	33.703	93.676	83.648	1.00185.32	O
HETATM 6422	O6	MAN	F	641	36.496	94.413	82.345	1.00194.64	O
HETATM 6423	C1	MAN	F	642	29.936	97.176	82.914	1.00189.51	C
HETATM 6424	C2	MAN	F	642	30.777	98.175	82.097	1.00190.77	C
HETATM 6425	C3	MAN	F	642	31.732	98.953	83.014	1.00193.36	C
HETATM 6426	C4	MAN	F	642	31.007	99.548	84.231	1.00196.45	C
HETATM 6427	C5	MAN	F	642	30.138	98.480	84.910	1.00197.04	C
HETATM 6428	C6	MAN	F	642	29.298	98.985	86.072	1.00198.31	C
HETATM 6429	O2	MAN	F	642	29.917	99.076	81.421	1.00189.27	O
HETATM 6430	O3	MAN	F	642	32.344	99.994	82.278	1.00193.29	O
HETATM 6431	O4	MAN	F	642	31.959	100.047	85.159	1.00198.31	O
HETATM 6432	O5	MAN	F	642	29.244	97.892	83.935	1.00193.89	O
HETATM 6433	O6	MAN	F	642	29.306	100.403	86.145	1.00198.31	O
HETATM 6434	C1	MAN	F	643	35.990	93.378	81.534	1.00198.31	C
HETATM 6435	C2	MAN	F	643	36.782	92.081	81.772	1.00198.31	C
HETATM 6436	C3	MAN	F	643	38.190	92.201	81.187	1.00198.31	C
HETATM 6437	C4	MAN	F	643	38.117	92.592	79.710	1.00197.82	C
HETATM 6438	C5	MAN	F	643	37.307	93.883	79.557	1.00196.82	C
HETATM 6439	C6	MAN	F	643	37.111	94.291	78.111	1.00194.00	C
HETATM 6440	O2	MAN	F	643	36.100	90.996	81.162	1.00198.31	O
HETATM 6441	O3	MAN	F	643	38.872	90.965	81.327	1.00196.63	O
HETATM 6442	O4	MAN	F	643	39.427	92.789	79.206	1.00194.91	O
HETATM 6443	O5	MAN	F	643	35.992	93.719	80.139	1.00198.31	O
HETATM 6444	O6	MAN	F	643	35.953	93.686	77.550	1.00188.74	O
HETATM 6445	C1	FUC	F	644	32.433	86.921	89.162	1.00159.25	C
HETATM 6446	C2	FUC	F	644	33.063	85.961	90.188	1.00160.27	C
HETATM 6447	C3	FUC	F	644	34.526	86.346	90.381	1.00161.26	C
HETATM 6448	C4	FUC	F	644	34.602	87.805	90.850	1.00162.65	C
HETATM 6449	C5	FUC	F	644	33.873	88.703	89.841	1.00161.15	C
HETATM 6450	C6	FUC	F	644	33.817	90.159	90.238	1.00159.96	C
HETATM 6451	O2	FUC	F	644	32.956	84.618	89.743	1.00160.19	O
HETATM 6452	O3	FUC	F	644	35.136	85.487	91.330	1.00161.08	O
HETATM 6453	O4	FUC	F	644	33.975	87.913	92.120	1.00166.93	O
HETATM 6454	O5	FUC	F	644	32.513	88.244	89.671	1.00159.60	O
HETATM 6455	C1	NAG	G	692	27.367	69.699	61.043	1.00 81.28	C
HETATM 6456	C2	NAG	G	692	27.349	68.145	60.977	1.00 89.99	C
HETATM 6457	C3	NAG	G	692	26.829	67.603	59.625	1.00 91.14	C
HETATM 6458	C4	NAG	G	692	25.533	68.296	59.204	1.00 89.04	C
HETATM 6459	C5	NAG	G	692	25.833	69.796	59.186	1.00 83.33	C
HETATM 6460	C6	NAG	G	692	24.698	70.656	58.666	1.00 86.45	C
HETATM 6461	C7	NAG	G	692	29.018	67.014	62.319	1.00101.90	C



HETATM 6462	C8	NAG	G	692	30.453	66.530	62.450	1.00102.83	C
HETATM 6463	N2	NAG	G	692	28.695	67.645	61.192	1.00 97.33	N
HETATM 6464	O3	NAG	G	692	26.613	66.201	59.704	1.00 94.88	O
HETATM 6465	O4	NAG	G	692	25.126	67.837	57.887	1.00 95.09	O
HETATM 6466	O5	NAG	G	692	26.146	70.251	60.521	1.00 73.85	O
HETATM 6467	O6	NAG	G	692	23.430	70.092	58.975	1.00 86.10	O
HETATM 6468	O7	NAG	G	692	28.219	66.809	63.233	1.00101.45	O
HETATM 6469	C1	NAG	G	693	23.871	67.233	57.756	1.00 98.64	C
HETATM 6470	C2	NAG	G	693	23.321	67.464	56.335	1.00 95.54	C
HETATM 6471	C3	NAG	G	693	21.965	66.769	56.169	1.00 98.16	C
HETATM 6472	C4	NAG	G	693	22.030	65.297	56.580	1.00105.51	C
HETATM 6473	C5	NAG	G	693	22.757	65.103	57.934	1.00108.87	C
HETATM 6474	C6	NAG	G	693	23.069	63.640	58.214	1.00113.67	C
HETATM 6475	C7	NAG	G	693	24.226	69.586	55.632	1.00 93.26	C
HETATM 6476	C8	NAG	G	693	24.005	71.065	55.377	1.00 87.73	C
HETATM 6477	N2	NAG	G	693	23.183	68.884	56.070	1.00 91.40	N
HETATM 6478	O3	NAG	G	693	21.548	66.851	54.818	1.00 87.79	O
HETATM 6479	O4	NAG	G	693	20.685	64.776	56.677	1.00114.16	O
HETATM 6480	O5	NAG	G	693	24.024	65.819	57.970	1.00102.56	O
HETATM 6481	O6	NAG	G	693	22.449	62.779	57.263	1.00119.18	O
HETATM 6482	O7	NAG	G	693	25.340	69.094	55.434	1.00101.16	O
HETATM 6483	C1	MAN	G	694	20.286	63.958	55.639	1.00119.37	C
HETATM 6484	C2	MAN	G	694	19.098	63.069	56.066	1.00121.55	C
HETATM 6485	C3	MAN	G	694	18.780	62.208	54.854	1.00123.62	C
HETATM 6486	C4	MAN	G	694	18.409	63.081	53.662	1.00129.09	C
HETATM 6487	C5	MAN	G	694	19.574	64.023	53.357	1.00130.74	C
HETATM 6488	C6	MAN	G	694	19.188	64.996	52.274	1.00141.14	C
HETATM 6489	O2	MAN	G	694	17.976	63.876	56.409	1.00125.53	O
HETATM 6490	O3	MAN	G	694	17.763	61.211	55.108	1.00113.48	O
HETATM 6491	O4	MAN	G	694	18.152	62.263	52.530	1.00136.46	O
HETATM 6492	O5	MAN	G	694	19.915	64.791	54.532	1.00121.09	O
HETATM 6493	O6	MAN	G	694	20.318	65.793	51.893	1.00154.48	O
HETATM 6494	C1	MAN	G	695	17.828	60.147	54.190	1.00113.74	C
HETATM 6495	C2	MAN	G	695	17.347	58.835	54.818	1.00111.77	C
HETATM 6496	C3	MAN	G	695	18.355	58.337	55.863	1.00115.55	C
HETATM 6497	C4	MAN	G	695	19.766	58.266	55.265	1.00117.80	C
HETATM 6498	C5	MAN	G	695	20.118	59.626	54.673	1.00117.97	C
HETATM 6499	C6	MAN	G	695	21.498	59.749	54.057	1.00117.01	C
HETATM 6500	O2	MAN	G	695	17.217	57.856	53.796	1.00 96.60	O
HETATM 6501	O3	MAN	G	695	17.970	57.052	56.331	1.00120.40	O
HETATM 6502	O4	MAN	G	695	20.700	57.925	56.277	1.00120.93	O
HETATM 6503	O5	MAN	G	695	19.144	59.971	53.668	1.00117.19	O
HETATM 6504	O6	MAN	G	695	21.834	58.594	53.308	1.00113.39	O
HETATM 6505	C1	MAN	G	696	19.885	66.898	51.143	1.00164.32	C
HETATM 6506	C2	MAN	G	696	21.062	67.519	50.365	1.00166.62	C
HETATM 6507	C3	MAN	G	696	22.001	68.326	51.285	1.00171.12	C
HETATM 6508	C4	MAN	G	696	21.233	69.232	52.282	1.00175.18	C
HETATM 6509	C5	MAN	G	696	20.073	68.476	52.948	1.00173.34	C
HETATM 6510	C6	MAN	G	696	19.196	69.358	53.827	1.00172.72	C
HETATM 6511	O2	MAN	G	696	20.585	68.356	49.314	1.00163.60	O
HETATM 6512	O3	MAN	G	696	22.877	69.128	50.491	1.00169.59	O
HETATM 6513	O4	MAN	G	696	22.124	69.702	53.294	1.00179.94	O
HETATM 6514	O5	MAN	G	696	19.229	67.884	51.939	1.00170.02	O
HETATM 6515	O6	MAN	G	696	19.108	70.684	53.320	1.00172.71	O
HETATM 6516	C1	NAG	H	715	13.640	83.037	66.153	1.00115.84	C
HETATM 6517	C2	NAG	H	715	12.944	84.348	65.800	1.00117.74	C
HETATM 6518	C3	NAG	H	715	12.827	84.533	64.279	1.00130.57	C
HETATM 6519	C4	NAG	H	715	14.059	84.079	63.468	1.00140.47	C
HETATM 6520	C5	NAG	H	715	14.747	82.839	64.066	1.00137.92	C
HETATM 6521	C6	NAG	H	715	16.121	82.604	63.466	1.00140.32	C
HETATM 6522	C7	NAG	H	715	11.226	85.294	67.210	1.00 95.61	C
HETATM 6523	C8	NAG	H	715	9.809	85.192	67.743	1.00 87.49	C
HETATM 6524	N2	NAG	H	715	11.611	84.340	66.371	1.00105.35	N
HETATM 6525	O3	NAG	H	715	12.579	85.904	63.987	1.00126.41	O
HETATM 6526	O4	NAG	H	715	13.614	83.755	62.132	1.00155.63	O
HETATM 6527	O5	NAG	H	715	14.904	82.978	65.491	1.00126.15	O
HETATM 6528	O6	NAG	H	715	17.064	82.210	64.447	1.00143.48	O
HETATM 6529	O7	NAG	H	715	11.952	86.224	67.555	1.00 91.56	O
HETATM 6530	C1	NAG	H	716	14.154	84.450	61.069	1.00170.24	C
HETATM 6531	C2	NAG	H	716	14.427	83.462	59.946	1.00178.62	C
HETATM 6532	C3	NAG	H	716	14.948	84.201	58.720	1.00182.32	C
HETATM 6533	C4	NAG	H	716	13.979	85.302	58.305	1.00182.82	C
HETATM 6534	C5	NAG	H	716	13.630	86.201	59.513	1.00181.47	C
HETATM 6535	C6	NAG	H	716	12.531	87.178	59.199	1.00185.71	C
HETATM 6536	C7	NAG	H	716	15.013	81.194	60.478	1.00183.72	C
HETATM 6537	C8	NAG	H	716	16.059	80.205	60.959	1.00184.71	C
HETATM 6538	N2	NAG	H	716	15.382	82.468	60.395	1.00181.87	N
HETATM 6539	O3	NAG	H	716	15.138	83.291	57.652	1.00185.53	O
HETATM 6540	O4	NAG	H	716	14.571	86.094	57.256	1.00183.84	O

HETATM	6541	O5	NAG	H	716	13.181	85.413	60.646	1.00172.88	O
HETATM	6542	O6	NAG	H	716	12.397	88.161	60.216	1.00192.77	O
HETATM	6543	O7	NAG	H	716	13.881	80.804	60.195	1.00183.38	O
HETATM	6544	C1	MAN	H	717	13.820	86.274	56.101	1.00184.69	C
HETATM	6545	C2	MAN	H	717	13.250	87.719	56.059	1.00183.61	C
HETATM	6546	C3	MAN	H	717	12.670	88.105	54.679	1.00185.94	C
HETATM	6547	C4	MAN	H	717	13.602	87.681	53.533	1.00190.00	C
HETATM	6548	C5	MAN	H	717	14.036	86.209	53.703	1.00191.21	C
HETATM	6549	C6	MAN	H	717	14.958	85.664	52.604	1.00190.18	C
HETATM	6550	O2	MAN	H	717	14.249	88.653	56.450	1.00178.99	O
HETATM	6551	O3	MAN	H	717	12.417	89.514	54.633	1.00181.42	O
HETATM	6552	O4	MAN	H	717	12.959	87.878	52.278	1.00190.59	O
HETATM	6553	O5	MAN	H	717	14.701	86.037	54.987	1.00188.51	O
HETATM	6554	O6	MAN	H	717	14.994	84.241	52.603	1.00188.39	O

GALACTOSE MOLECULE COORDINATES

CHARACTER MOLECULE COORDINATES										
	Atom									
	Type	Resid	#	X	Y	Z	OCC	B		
HETATM	6555	C1	GAL	1101	-17.781	61.062	105.414	1.00	61.45	C
HETATM	6556	C2	GAL	1101	-16.853	59.968	105.952	1.00	59.70	C
HETATM	6557	C3	GAL	1101	-16.406	59.043	104.831	1.00	57.27	C
HETATM	6558	C4	GAL	1101	-17.672	58.457	104.235	1.00	55.95	C
HETATM	6559	C5	GAL	1101	-18.524	59.590	103.680	1.00	62.81	C
HETATM	6560	C6	GAL	1101	-19.797	59.114	103.010	1.00	66.98	C
HETATM	6561	O1	GAL	1101	-17.082	61.854	104.525	1.00	60.34	O
HETATM	6562	O2	GAL	1101	-15.728	60.529	106.610	1.00	61.68	O
HETATM	6563	O3	GAL	1101	-15.549	58.009	105.328	1.00	56.11	O
HETATM	6564	O4	GAL	1101	-18.379	57.776	105.258	1.00	47.84	O
HETATM	6565	O5	GAL	1101	-18.909	60.485	104.733	1.00	64.69	O
HETATM	6566	O6	GAL	1101	-20.698	60.192	102.791	1.00	69.17	O
HETATM	6567	C1	GAL	1103	19.728	69.733	87.085	1.00	73.14	C
HETATM	6568	C2	GAL	1103	19.032	68.891	86.002	1.00	74.89	C
HETATM	6569	C3	GAL	1103	18.997	67.401	86.351	1.00	73.18	C
HETATM	6570	C4	GAL	1103	20.418	66.932	86.650	1.00	67.98	C
HETATM	6571	C5	GAL	1103	21.069	67.816	87.740	1.00	70.88	C
HETATM	6572	C6	GAL	1103	22.533	67.422	87.991	1.00	68.59	C
HETATM	6573	O1	GAL	1103	18.964	69.722	88.243	1.00	64.62	O
HETATM	6574	O2	GAL	1103	17.708	69.354	85.806	1.00	82.04	O
HETATM	6575	O3	GAL	1103	18.444	66.627	85.276	1.00	75.70	O
HETATM	6576	O4	GAL	1103	21.194	66.934	85.456	1.00	55.41	O
HETATM	6577	O5	GAL	1103	21.051	69.220	87.364	1.00	77.47	O
HETATM	6578	O6	GAL	1103	23.045	67.950	89.214	1.00	61.30	O

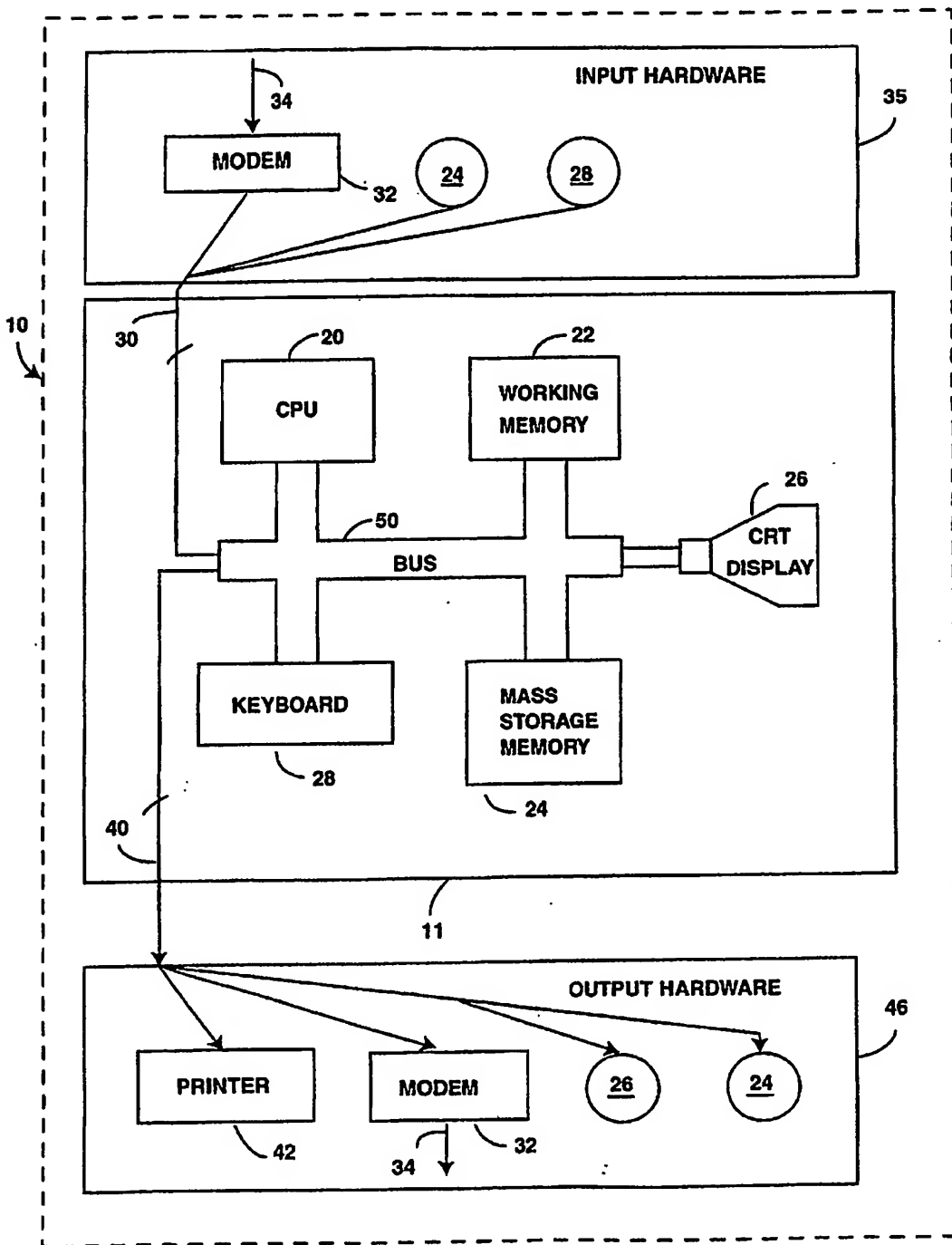
ETHYLENE GLYCOL MOLECULE COORDINATES

ATOMIC COORDINATE DATA										
Atom				X	Y	Z	OCC	B		
Type	Resid	#								
HETATM	6579	C1	EGL	1102	21.911	35.815	115.706	1.00	104.60	C
HETATM	6580	O1	EGL	1102	21.022	34.746	116.032	1.00	102.85	O
HETATM	6581	C2	EGL	1102	21.852	36.116	114.185	1.00	103.58	C
HETATM	6582	O2	EGL	1102	20.925	35.242	113.531	1.00	95.95	O
HETATM	6583	C1	EGL	1104	19.899	39.439	90.310	1.00	108.69	C
HETATM	6584	O1	EGL	1104	20.931	40.421	90.338	1.00	105.85	O
HETATM	6585	C2	EGL	1104	19.324	39.275	91.722	1.00	106.50	C
HETATM	6586	O2	EGL	1104	20.002	40.157	92.629	1.00	103.98	O

WATER MOLECULE COORDINATES

Atom		Type	Resid	#	WATER MOLECULE COORDINATES					
					X	Y	Z	OCC	B	
HETATM	6587	O	HOH	1	4.389	62.036	109.896	1.00	36.21	O
HETATM	6588	O	HOH	2	-33.743	66.424	98.001	1.00	49.95	O
HETATM	6589	O	HOH	3	-31.308	61.068	97.174	1.00	14.32	O
HETATM	6590	O	HOH	4	7.246	39.358	106.515	1.00	49.50	O
HETATM	6591	O	HOH	5	-4.342	56.381	115.242	1.00	82.65	O
HETATM	6592	O	HOH	6	-5.596	72.666	75.302	1.00	22.68	O
HETATM	6593	O	HOH	7	7.443	68.845	89.368	1.00	49.14	O
HETATM	6594	O	HOH	8	-34.391	44.412	107.214	1.00	32.63	O
HETATM	6595	O	HOH	9	-12.650	42.533	120.345	1.00	32.46	O
HETATM	6596	O	HOH	10	-2.388	67.495	82.217	1.00	35.71	O
HETATM	6597	O	HOH	11	36.062	56.527	97.931	1.00	36.76	O
HETATM	6598	O	HOH	12	15.246	49.180	67.281	1.00	35.06	O
HETATM	6599	O	HOH	13	16.887	52.495	68.847	1.00	54.15	O
HETATM	6600	O	HOH	14	8.892	64.968	116.907	1.00	83.42	O
HETATM	6601	O	HOH	15	-6.111	64.210	102.918	1.00	3.31	O
HETATM	6602	O	HOH	16	-4.402	69.993	67.725	1.00	37.68	O
HETATM	6603	O	HOH	17	5.852	79.004	83.860	1.00	56.31	O
HETATM	6604	O	HOH	18	32.211	64.353	90.834	1.00	70.31	O

FIGURE 2



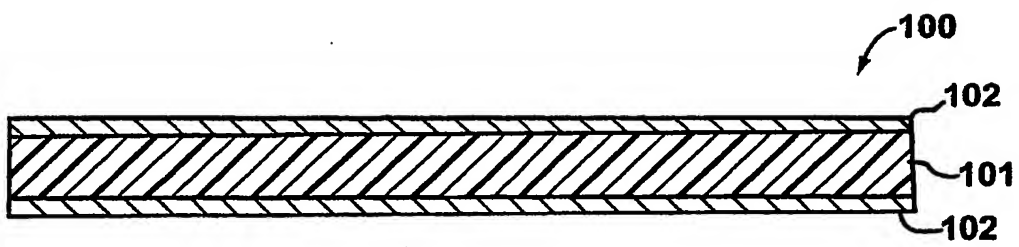


FIGURE 3

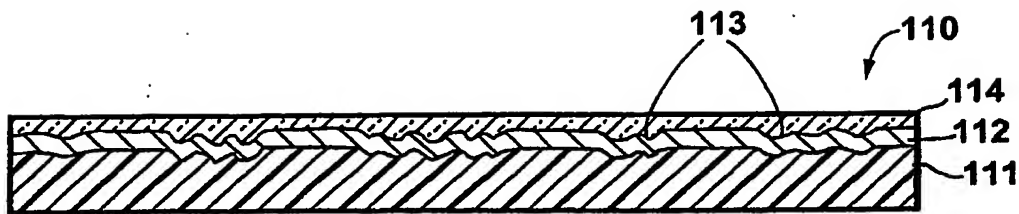


FIGURE 4

FIGURE 5

